The NATIONAL GEOGRAPHIC MAGAZINE

Vol. XV MARCH, 1904 No. 3

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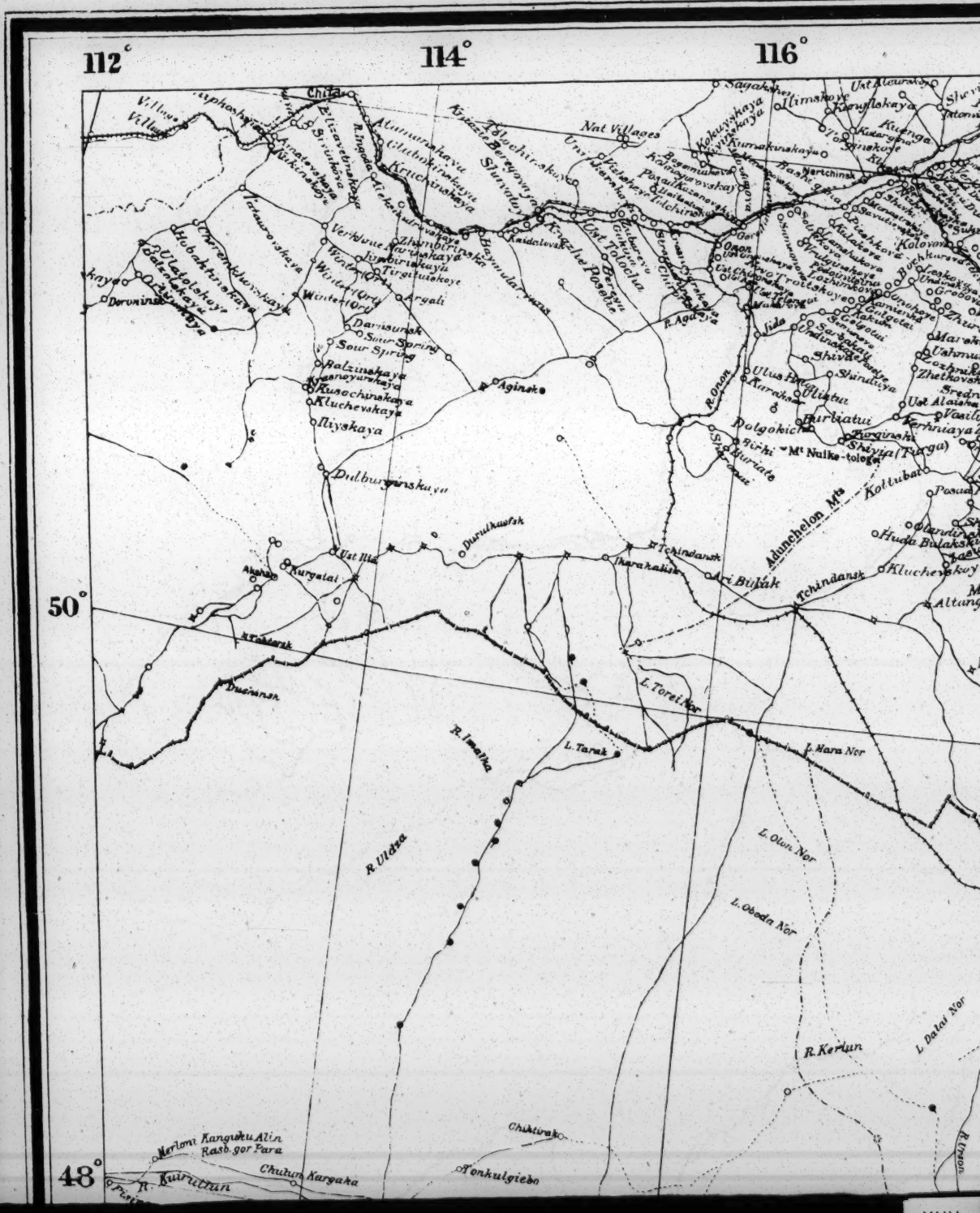
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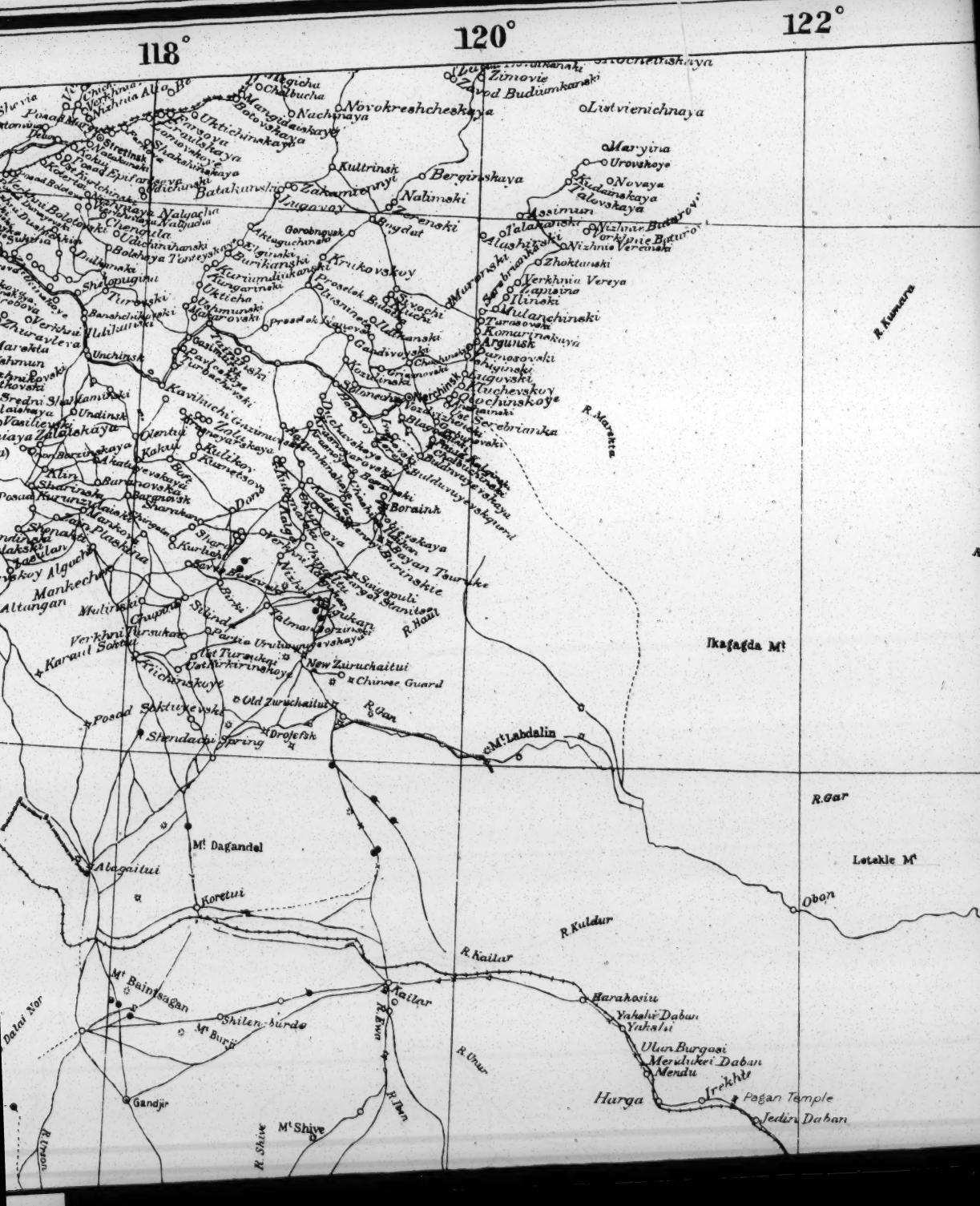
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Drojefsk
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Mt Dagandel
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Koretui
Lotakle Mt
Oboo
R. Kuldur
R. Kailar
Mt Bainsagan
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Mt Burji
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Mt Shive
R. Shive
Harakosiu
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Yakshi
Ulun Burgasi
Merulukei Daban
Merulu
Hurga
Pagan Temple
Jedin Daban
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R. Maraka
R. Uur
R. Ilan
Dalai Nor
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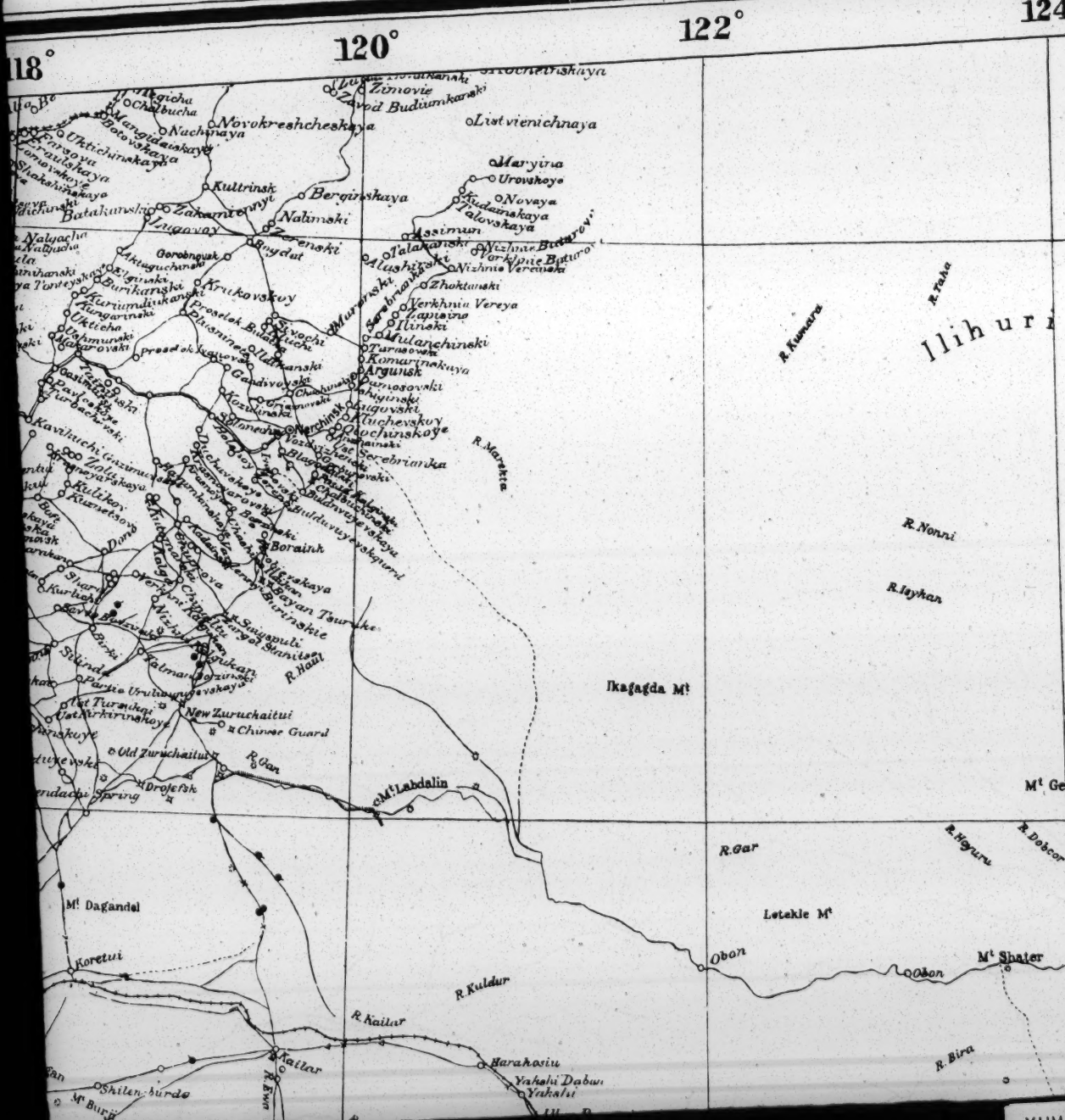

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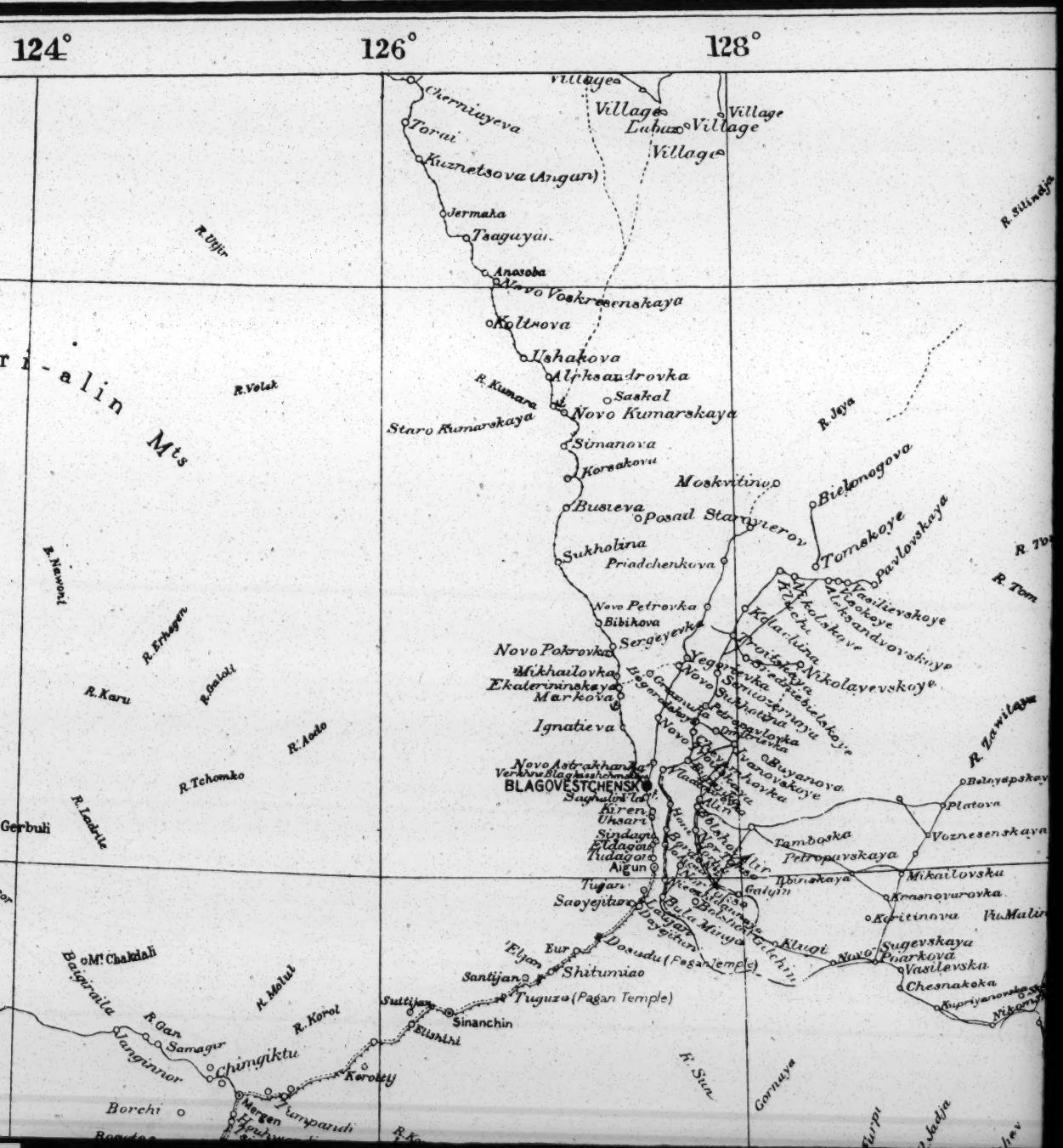
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Lubuzo
Chernitsyeva
Torai
Kuznetsova (Angun)
Jermaka
Tsaguyan
Anosoba
Novo Voskresenskaya
Koltsova
Ushakova
Aleksandrovka
Sasakal
Novo Kumarskaya
Staro Kumarskaya
Simanova
Korsakova
Moskvitino
Busieva
Posad Staryreron
Sukholina
Priadchenkova
Bielonogova
Tomskoye
Pavlovskaya
Vasilievskoye
Aleksandrovskiye
Nikolaevskoye
Novo Petrovka
Bibikova
Sergeyevka
Novo Pokrovka
Mikhailovka
Ekaterininskaya
Markova
Ignatieva
Novo Astrakhanka
Verkhne Blagoveshchensk
BLAGOVESTCHENSK
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Kiren
Uhsari
Sindagi
Eldagon
Tudagon
Aigun
Tugan
Saoyejitun
Dagyitun
Eur
Santijan
Shituniao
Tuguzo (Pagan Temple)
Sultijan
Sinanchin
Elishihi
Korolty
Borchi
Morgen
Pumpardi
Chimgiktu
Samagir
Vangirnor
Baigiraila
Mt. Chakdali
R. Amur
R. Zeya
R. Tom
R. Stanovoi
R. Nenori
R. Ertegen
R. Karu
R. Baldi
R. Aodo
R. Tchomko
R. Laobrie
R. Gan
R. Molul
R. Korol
R. Sun
Gerbuli
Stanovoi Mts
Balyepskaya
Platova
Voznesenskaya
Pamboska
Petropavlovskaya
Mikailovska
Krasnoyarovka
Koritinova
Sugevskaya
Vasilevska
Chesnakoka
Kluigi
Novo
Piarkova
Kuprianovska
Nikolaevska
Ivanovskoye
Buyanova
Galyin
Bula Mingo
Tolbuzin
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Troitskaya
Yegorievka
Novo Sukhotina
Gornaya
Novo Pavlovka
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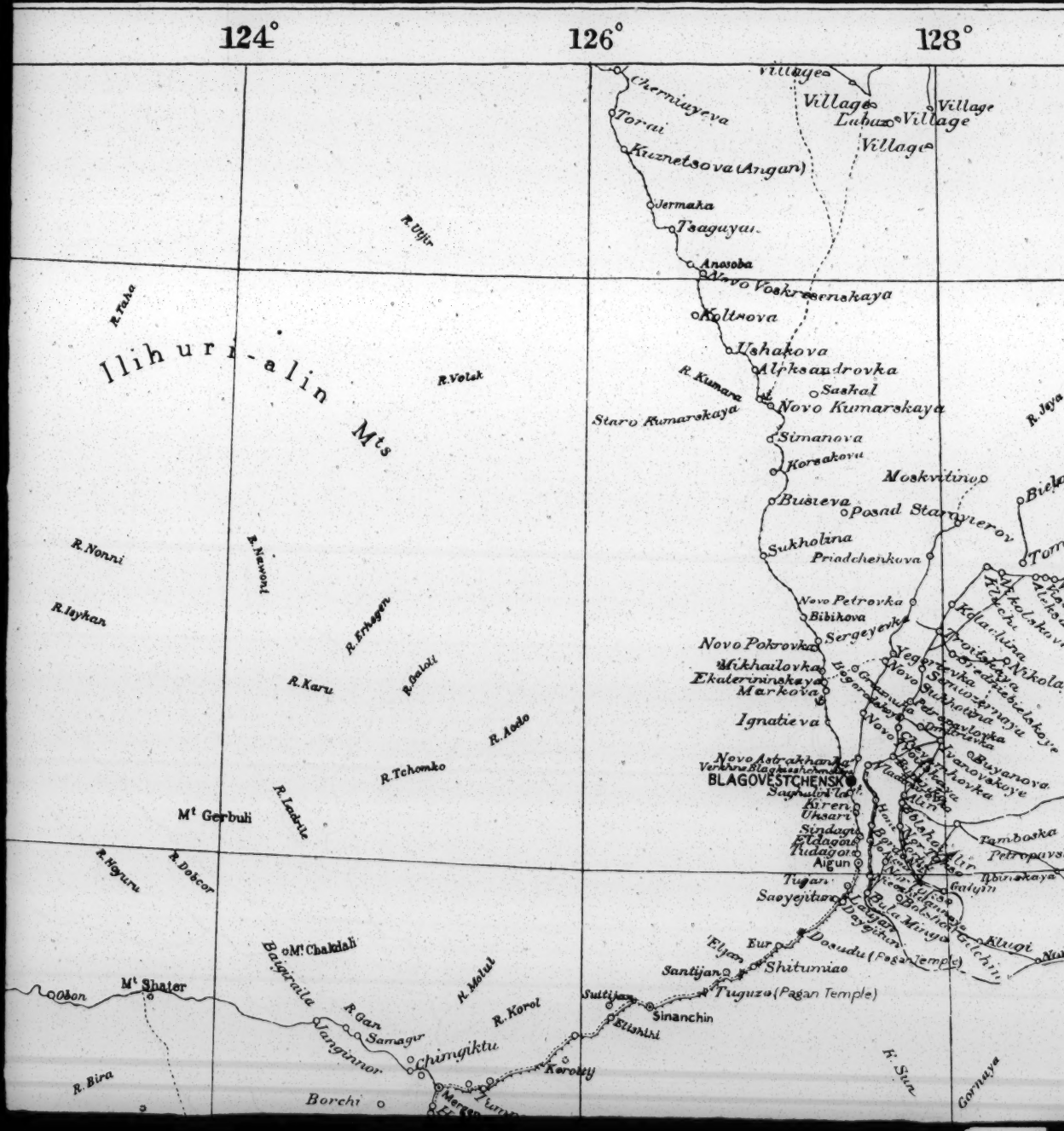

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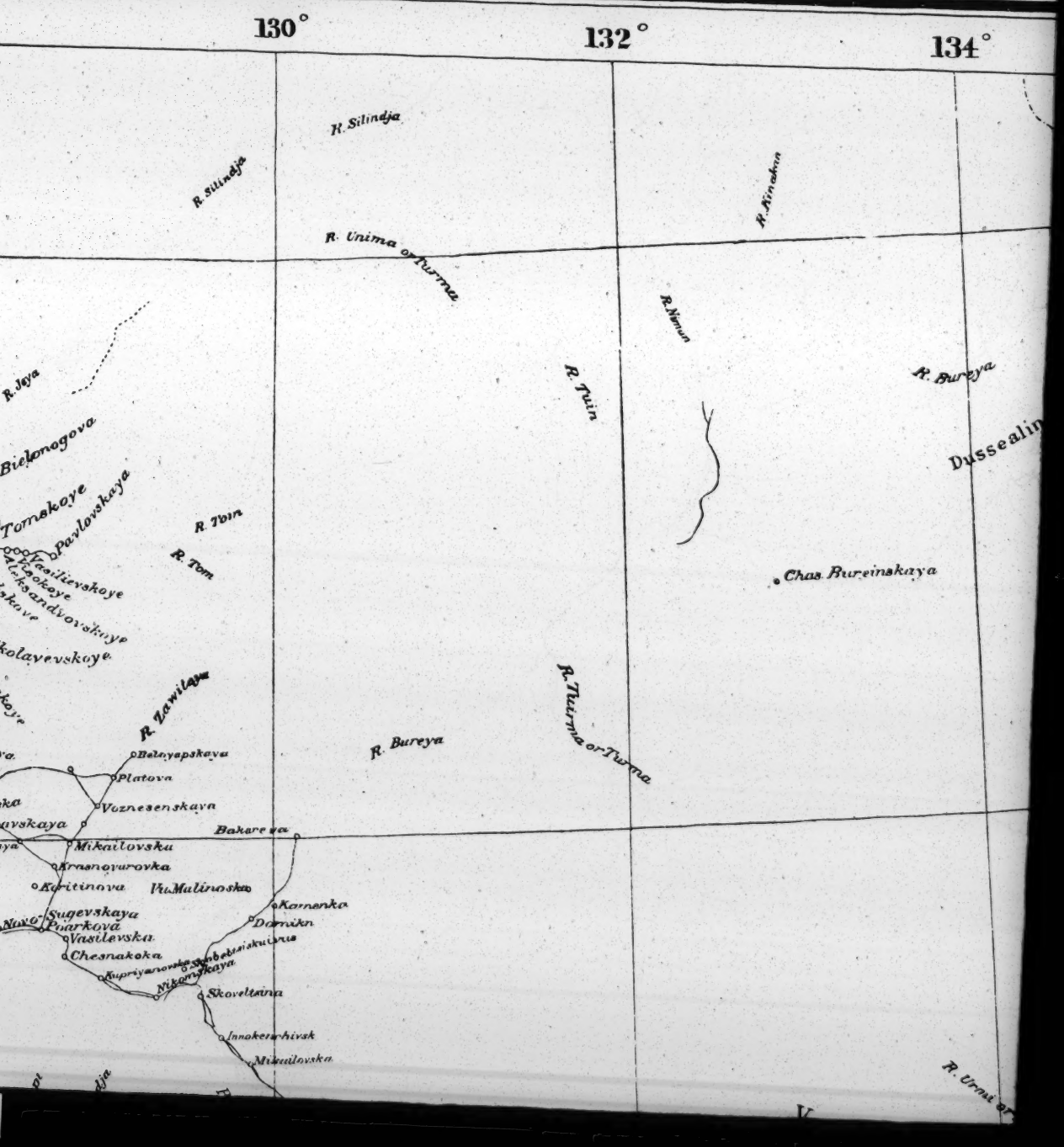

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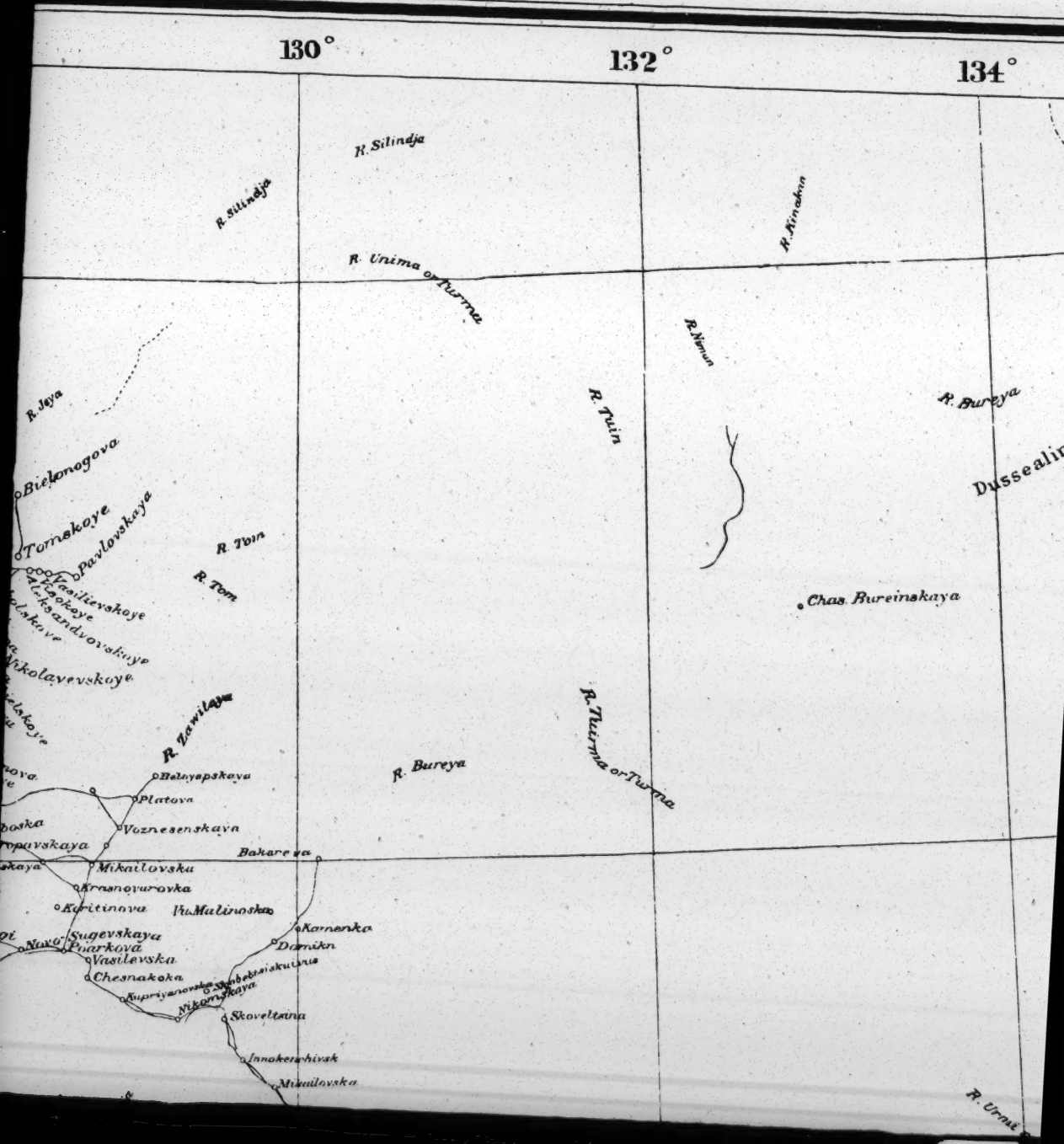

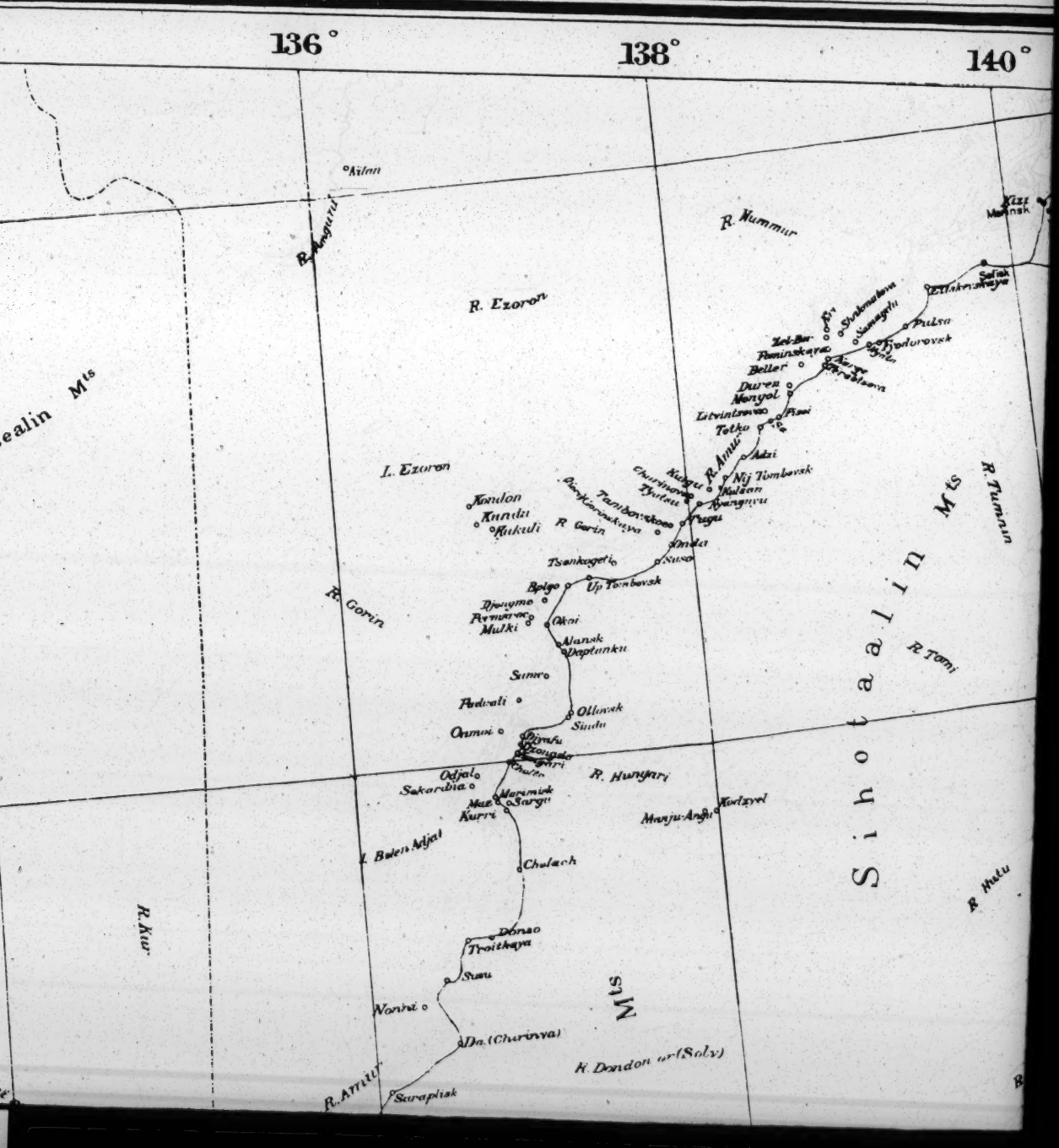
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Kilan
R. Amguni
R. Nummur
R. Ezoron
L. Ezoron
Mts
R. Gorin
R. Kur
R. Amuli
R. Tumnin
R. Tomi
R. Hungari
R. Hulu
Sihotaalin Mts
Mts
R. Dondon or (Solv)
Kondon
Kunidi
Kukuli
Tsenkogetio
Bpigo
Up Tymbovsk
Okoi
Nansk
Dapkunku
Sunro
Padvali
Ollinsk
Sindu
Onnui
Dimfu
Ozongda
Odjal
Sakardbia
Kurri
Marimisk
Sargi
Manju-Angi
Kudzyrel
L. Baden Adjal
Chulach
Donao
Troithaya
Susu
Nonni
Da. (Churinva)
Saraplisk
Adzi
Nij Tymbovsk
Kalsan
Bpangnyu
Pugu
Onda
Suro
Kuligi
Churinva
Tymtau
Tambovchoso
R. Gorin
Litvintzevo
Totko
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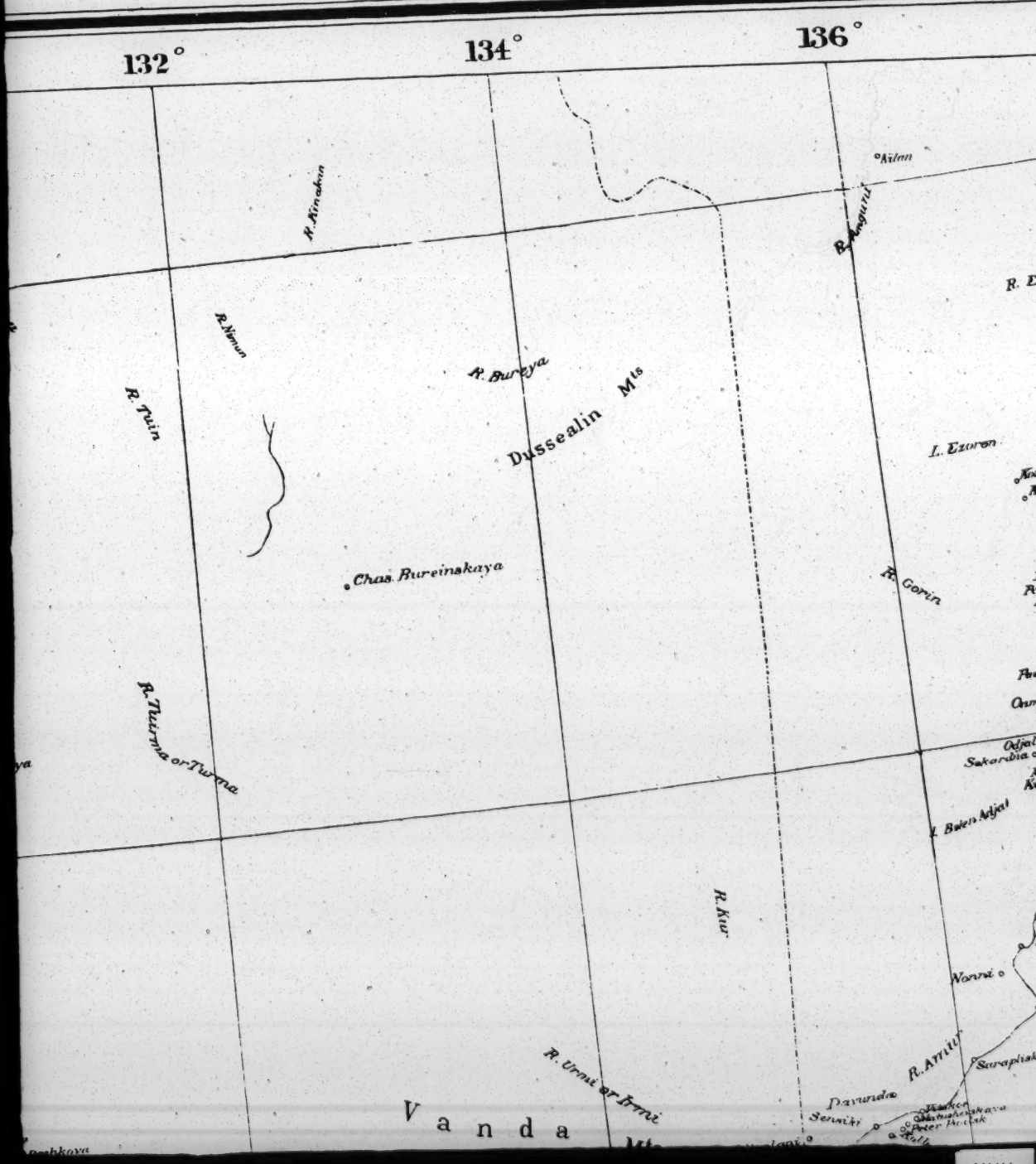
132°
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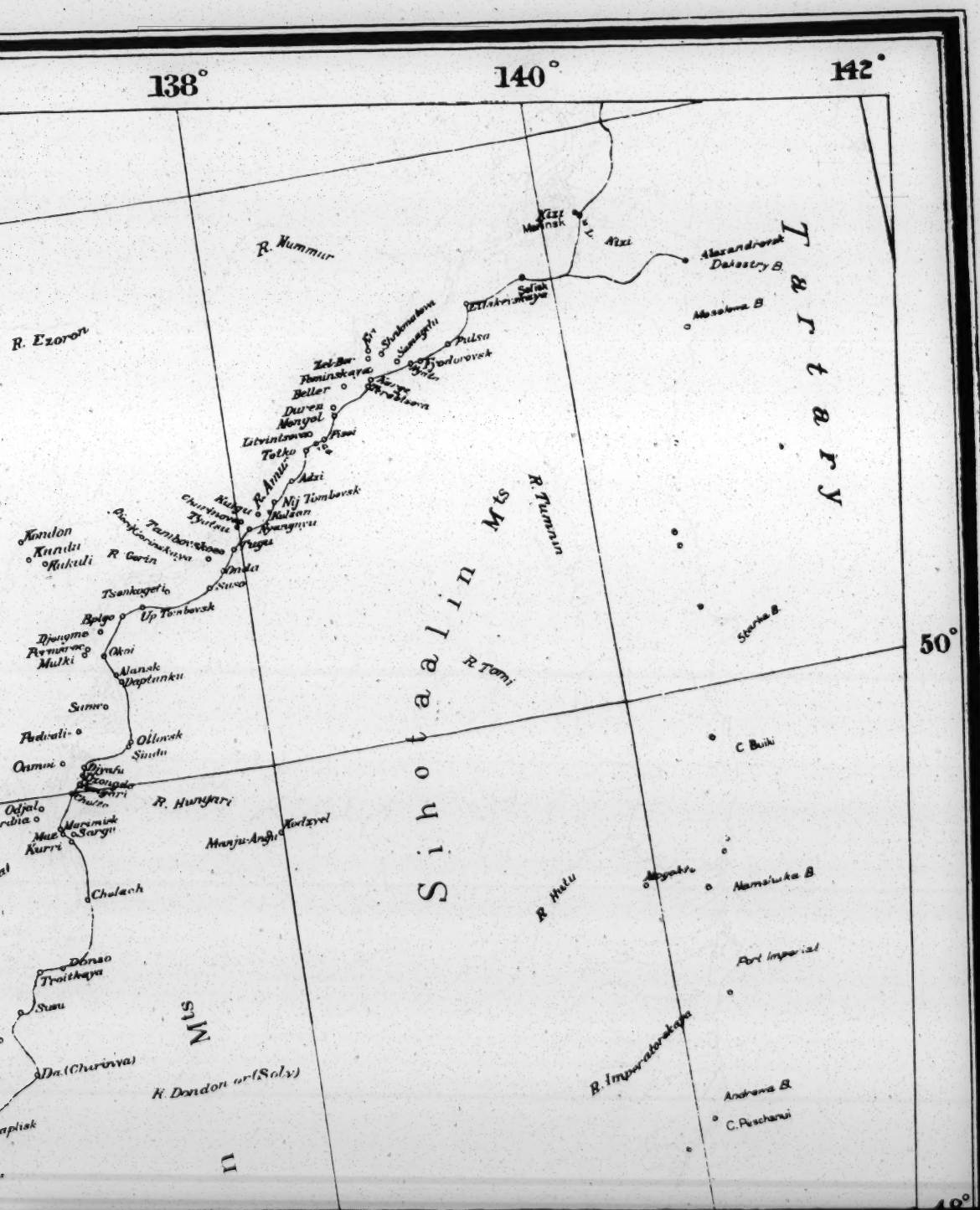
R. Kimakan
R. Nimun
R. Tuin
R. Burkya
Dusselin Mts
Chas. Bureinskaya
R. Turma or Twrma
R. Kur
R. Urmi or Irmi
Vanda
R. Angarin
L. Ezuron
R. Gorin
Nonni
R. Amur
Saraplisk
Darunda
Semiti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R. Hummur
R. Ezoron
Kizi Mariinsk
L. Kizi
Alexandrovsk Dalnestroy B.
Selink
Elizabetinskaya
Massolma B.
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Shukmakova
Sumagdu
Zeli-Bar
Pominskaya
Beller
Durga
Mongol
Livintsovo
Pisei
Tetko
Adzi
R. Amur
Nij Tumbovsk
Kulgu
Chuirinovo
Thaltzu
Kulsan
Ayangnyu
Pugu
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Nuso
Tsankageti
Bpigo
Up Tumbovsk
Djongme
Armarvo
Mulki
Okni
Nansk
Daptunku
Sumro
Pudvali
Ollonsk
Simdu
Onmui
Djimlu
Dzongala
Ghiri
Chulin
Odjal
Muz Kurri
Marsimsk
Sargu
R. Hungari
Manju-Angli
Nerlyvel
Chalach
Dönao
Troithaya
Susu
Da. (Churinva)
R. Dondon or (Solv)
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Sihotaalin Mts
R. Tumnin
R. Tomi
R. Ihulu
R. Imperatorskaya
Tartary
Starka B.
C. Buiki
Mogaltu
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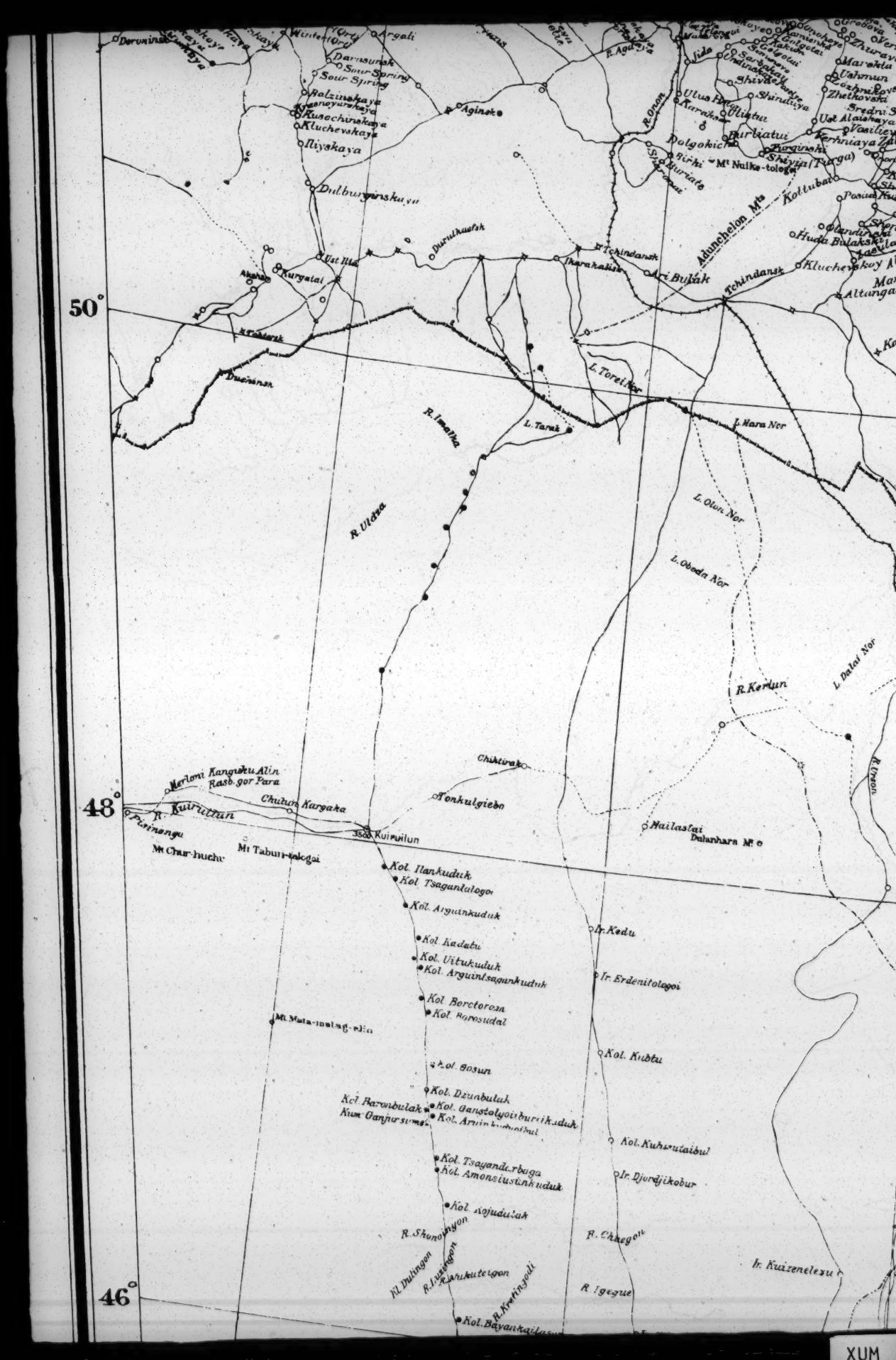
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Ust Ilka
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Tchindansk
Tcharakitu
Ari Bulak
Aduncheton Mts
Koltubat
Kluchevskay
Altunga
Huda Bulaksk
Ulus Kurlatui
Shiveitui (Turga)
Mt Nulka-tologa
Dolgokich
Kurlatui
Ulintu
Shiveitui
Ulus Kurlatui
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R. Agunya
Ilida
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L. Toreil Nor
L. Tarak
L. Hara Nor
R. Imatka
R. Ulutza
L. Olon Nor
L. Oboda Nor
L. Dalai Nor
R. Kerlun
Chikirak
Tonkulgiebo
Hailastai
Dalanhara Mts
Kuiruilun
3500
R. Kuiruilun
Merloni Kangiktu Alin
Rasb. gor Para
Chuhun Kargaka
Pirinangu
Mt Chur-huchu
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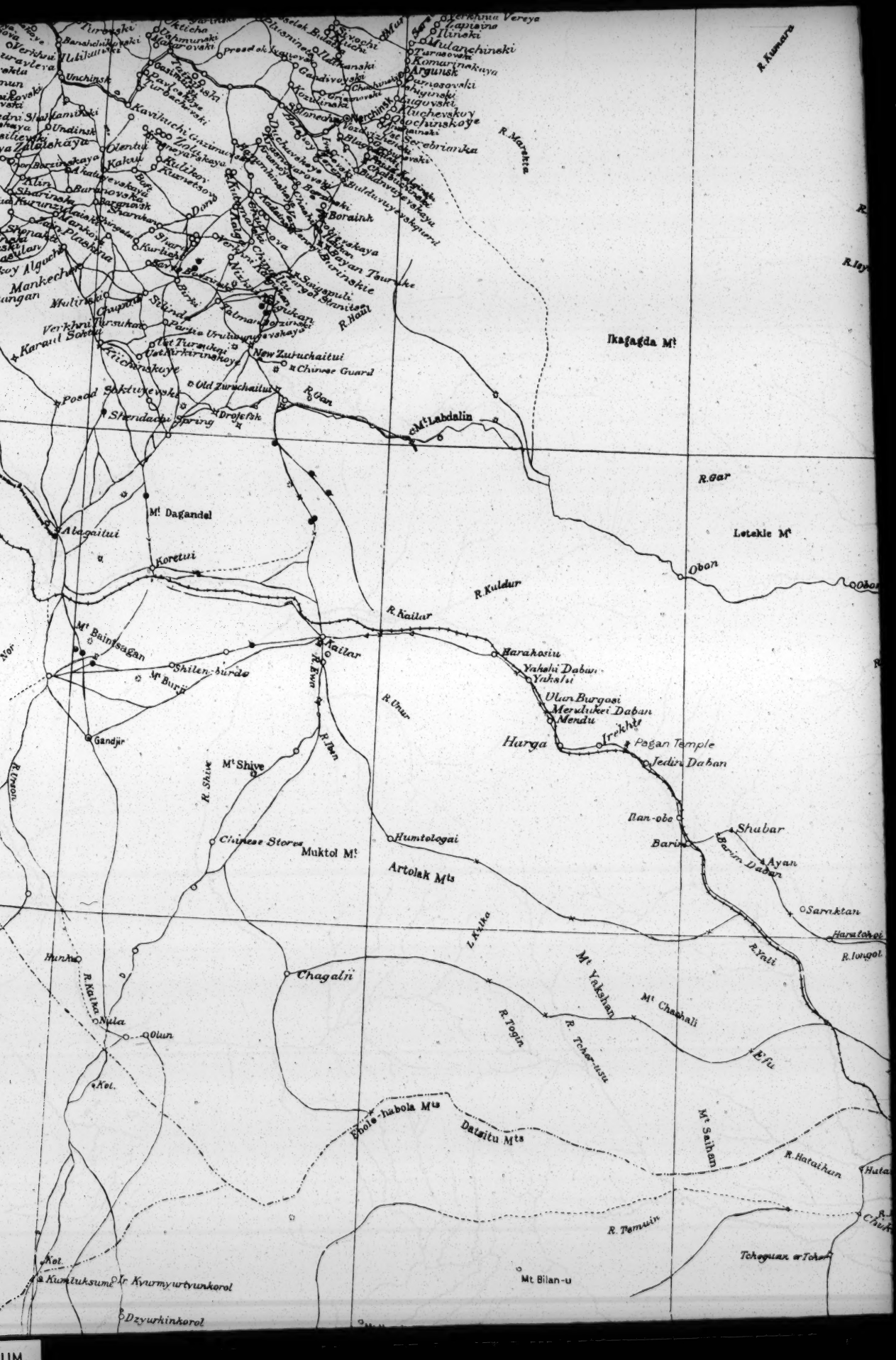
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Muktol Mt
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Nula
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Kol.
Ebolo-habola Mts
Datsitu Mts
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Ust Kirkirinskaya
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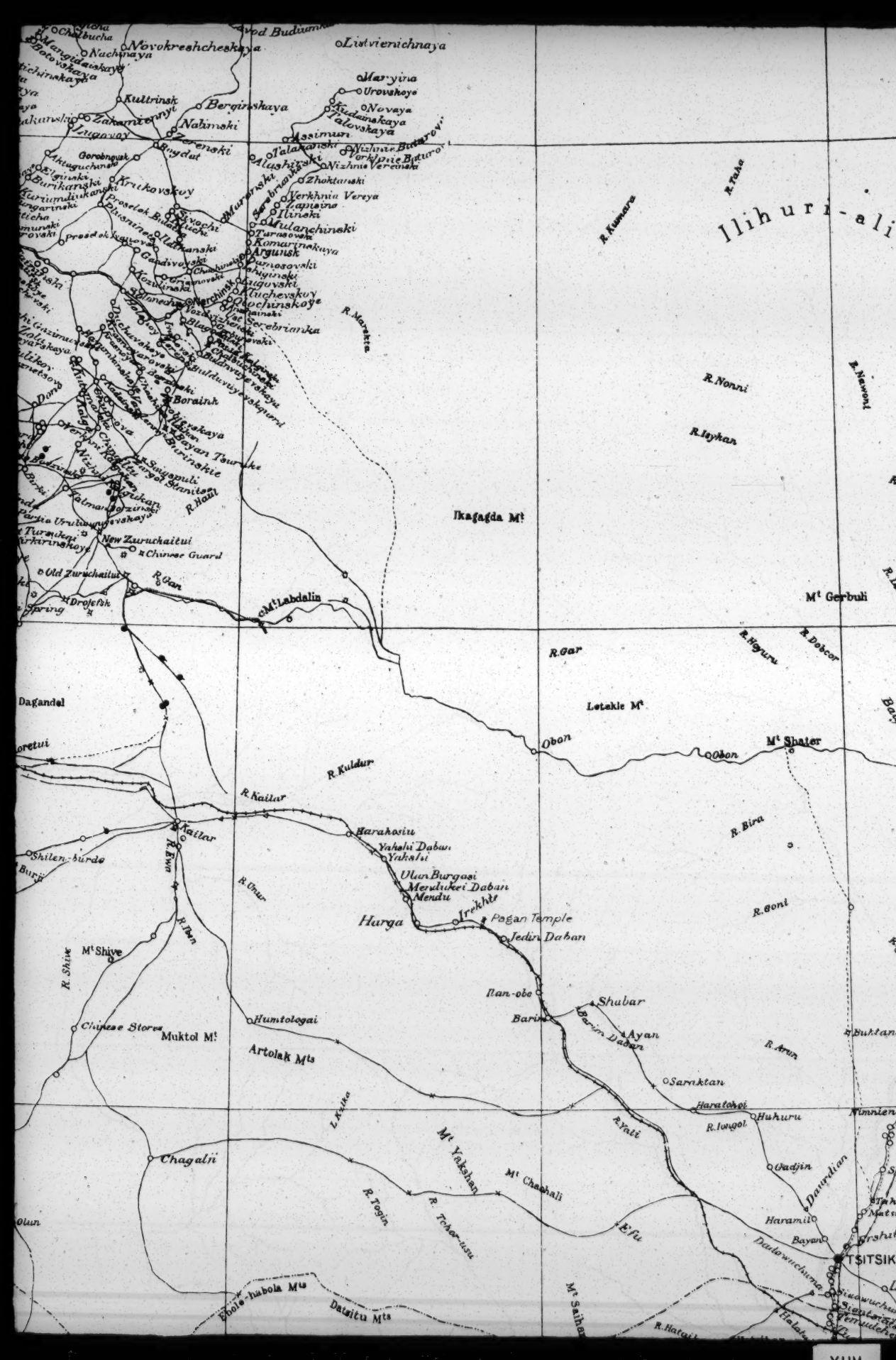
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Proselok Buldug
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Ulutkanski
Gandivoski
Kozulinski
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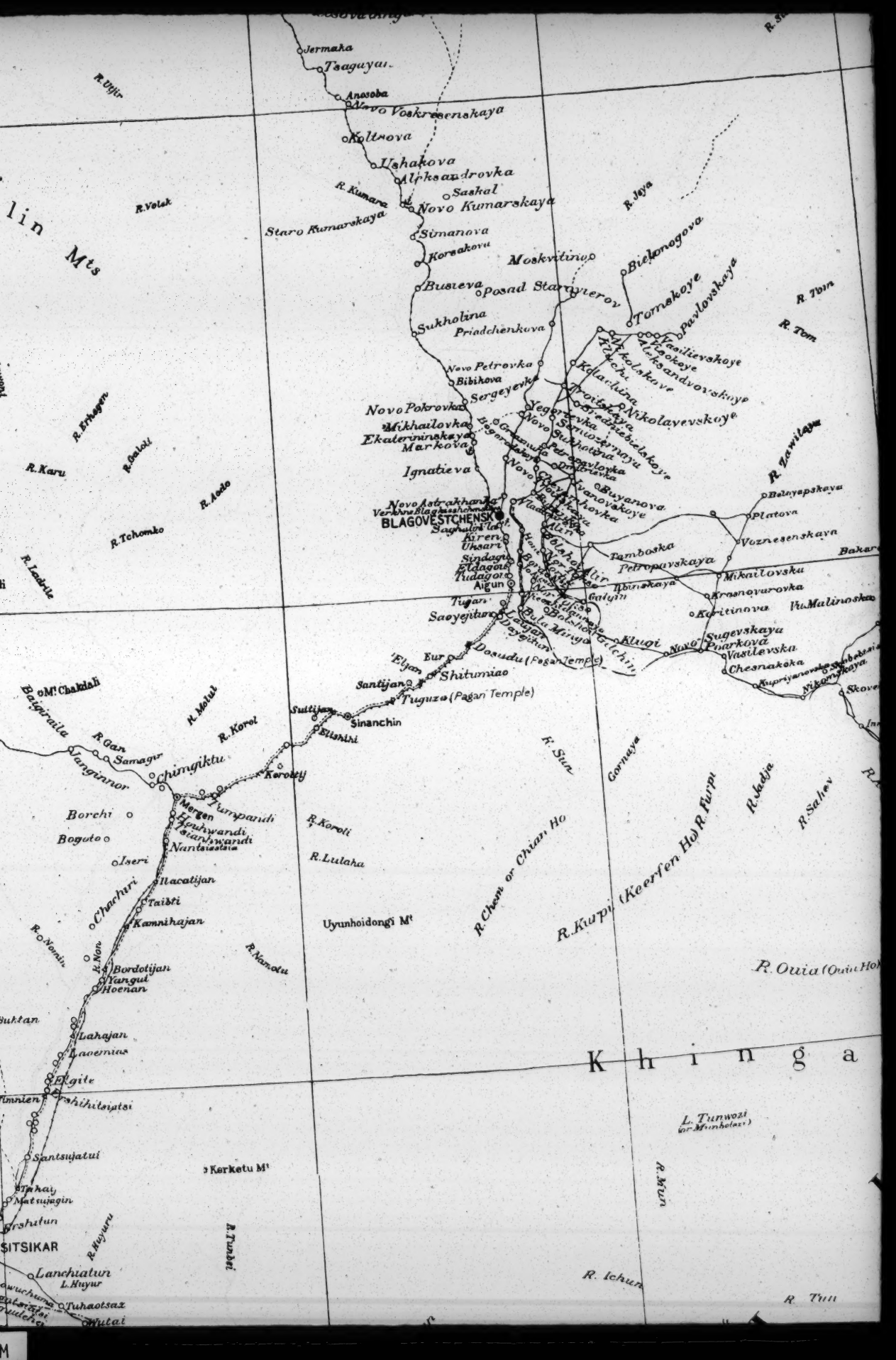
Datsitu Mts
Mt Shive
R. Shive
R. Ewn
R. Ibun
R. Kailar
R. Kuldur
R. Onur
Harahosiu
Yakshi Dabasi
Yakshi
Ulun Burgasi
Merdukei Daban
Mendu
Irekhti
Harga
Pagan Temple
Jedin Daban
Ilan-obo
Barin
Shubar
Berim Daban
Ayan
Sarnktan
Haratokei
Huhuru
R. Iwigol
R. Yati
L. Kuka
Mt Yakshan
Mt Chashali
R. Togin
R. Tchor-usu
E'fu
Gadjin
Dauridian
Haramil
Bayan
Darlowuchuwa
TSITSIK
Mt Saihan
R. Hatgal
R. Kumara
R. Tuka
Ilihuri-ali
R. Nonni
R. Iuykan
R. Newori
Ikagagda Mt
Mt Gerbuli
R. Gar
R. Hoguru
R. Dobcor
Letekle Mt
Obon
Mt Shater
R. Bira
R. Boni
R. Arun
Buktan
Mimnien
Mt Labdalin
R. Van
Old Zuruchaitui
New Zuruchaitui
Chinese Guard
Spring
Drofefsk
R. Hauli
Sinyanuli
Stanitsa
Burinskie
Bayan Tsuruke
Taigi
Chindant
Mt Labdalin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Koltsova
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Saskal
Novo Kumarskaya
Staro Kumarskaya
Simanova
Korsakova
Moskvitino
Busreva
Posad Staryerov
Sukholina
Priadchenkova
Bielonogova
Tomskoye
Pavlovskaya
Vasilievskoye
Nikolaevskoye
Novo Petrovka
Bibikova
Sergeyevka
Novo Pokrovka
Mikhailovka
Ekaterininskaya
Markova
Ignatieva
Novo Astrakhanka
BLAGOVESTCHENSK
Saghulovka
Kreri
Uksari
Sindagi
Eldagoi
Tudagoi
Aigun
Tugar
Saoyejitun
Dosudu (Pagan Temple)
Shitumiao
Santijan
Tuguzo (Pagan Temple)
Suttijan
Sinanchin
Elishihi
Korotky
Chimgiktu
Tanginnor
Samagir
Baigiraila
M^t Chakdali
Borchi
Bogoto
Iseri
Chachuri
Nacatijan
Taibti
Kamnihajan
Bordotijan
Yangui
Hoenan
Lahajan
Laoernias
Elgite
Shihitsintsi
Santsujatui
Takai
Matujagin
Shitun
SITSIKAR
Lanchiatun
L. Huyur
Tuhaotsai
Mutai
Korketu M^t
Uyunhoidongi M^t
Mts
R. Uyur
R. Volsk
R. Kumara
R. Jeya
R. Tom
R. Tura
R. Zawilaya
R. Erhegen
R. Karu
R. Baloli
R. Aodo
R. Tchomko
R. Ladzle
R. Gan
R. Meiul
R. Korol
R. Koroli
R. Lulaha
R. Nonni
R. Nonin
R. Namotu
R. Huyuru
R. Turuhei
R. Sun
Gornaya
R. Chen or Chiao Ho
R. Kupi (Keerfen Ho)
R. Fur'pi
R. Ladja
R. Salhev
R. Ouia (Ouin Ho)
R. Mun
R. Ichun
R. Tun
L. Tunwozi (or Munholozi)
Khinga
Baturin
Platova
Voznesenskaya
Tamboska
Petropavskaya
Mikailovsku
Krasnovarovka
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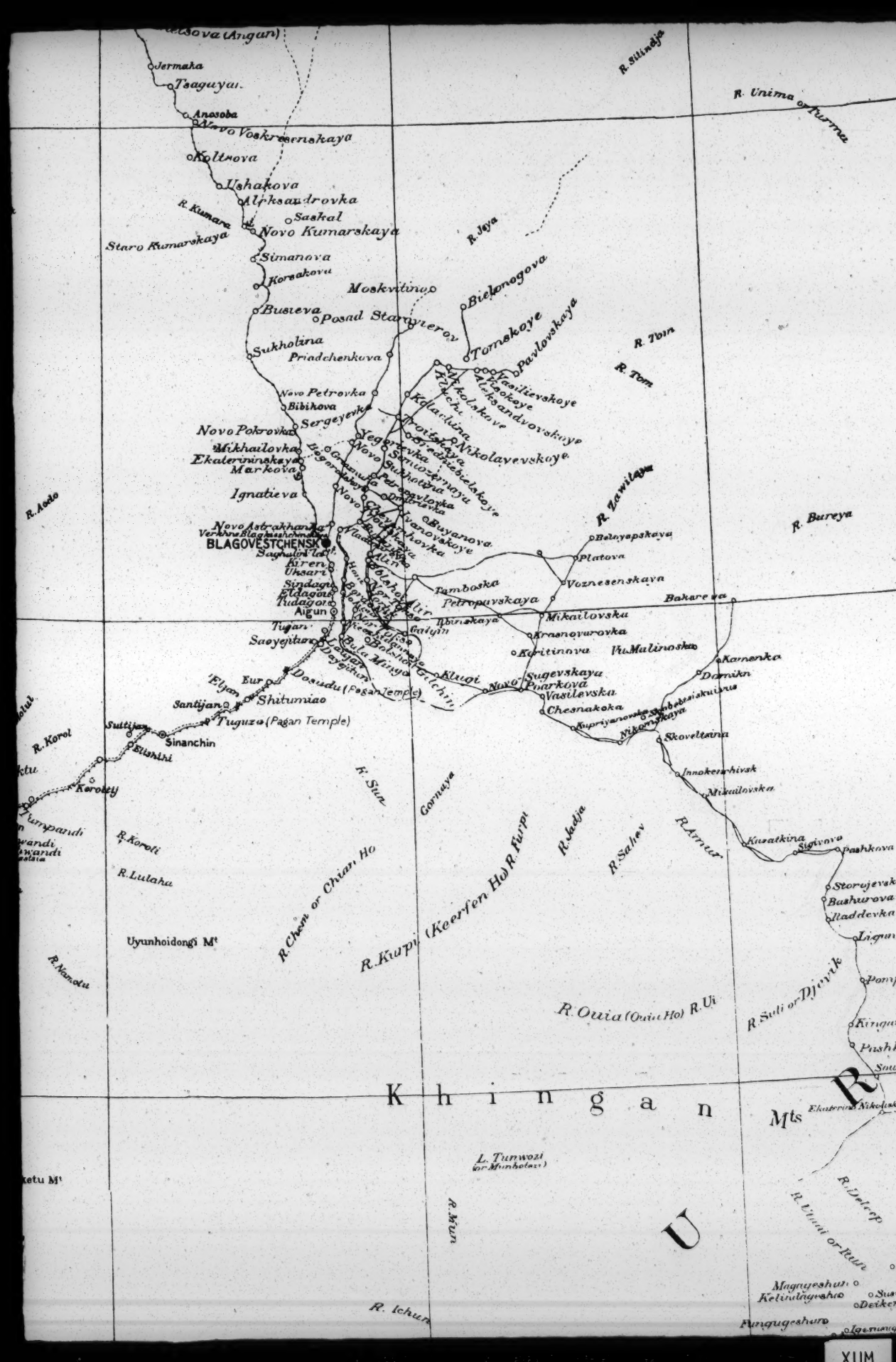
Vasilevska
Chesnakoka
Nikolaevskaya
Skovo
Bakar


Jermaka
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Anosoba
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Koltnova
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Saskal
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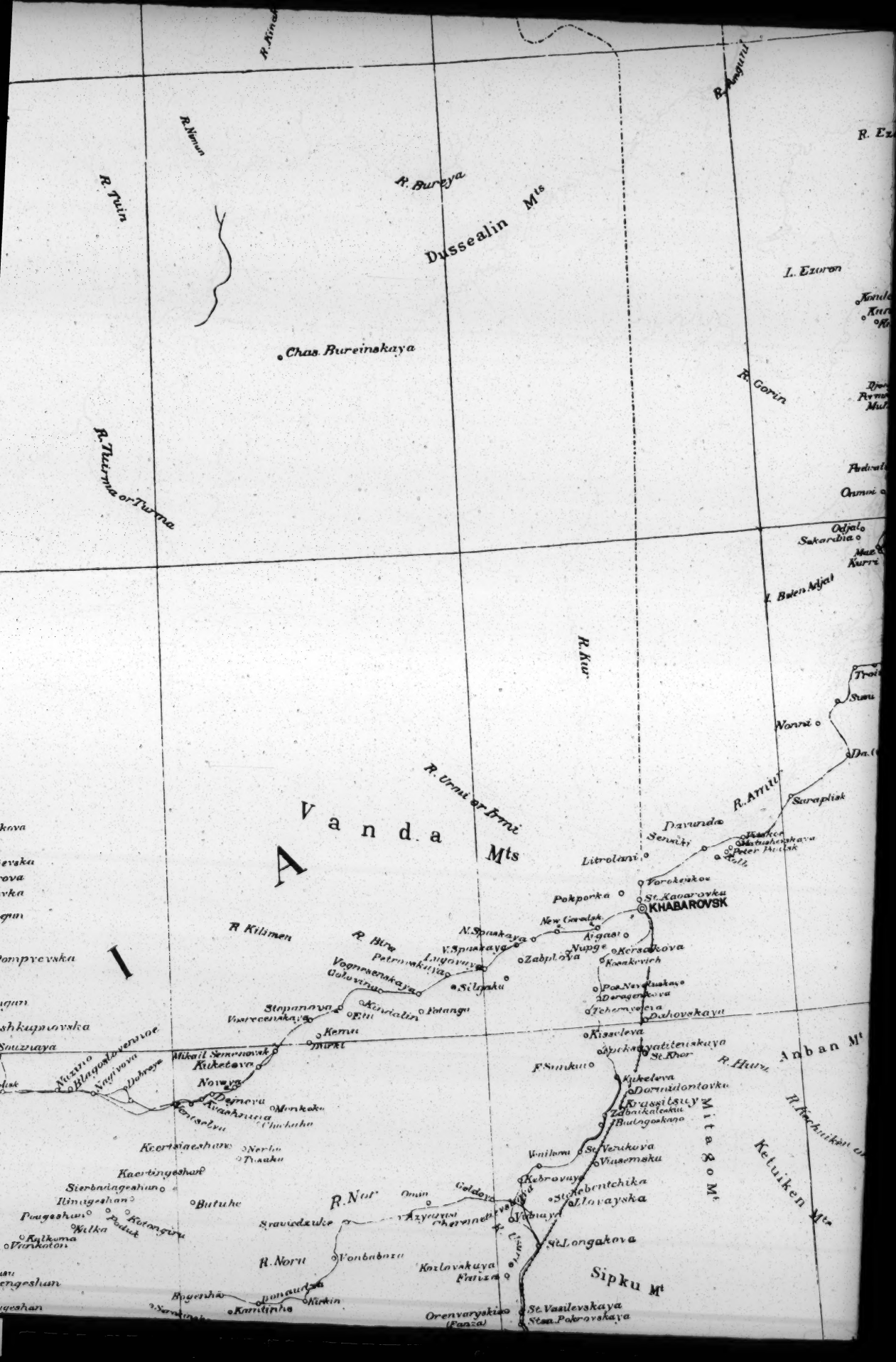
Staro Kumarskaya
Simanova
Korsakova
Moskvitino
Busieva
Posad Staryerov
Sukholina
Priadchenkova
Bielonogova
Tomskoye
Pavlovskaya
Vasilievskoye
Aleksandrovskoye
Nikolaevskoye
Novo Petrovka
Bibikova
Sergeyevka
Novo Pokrovka
Mikhailovka
Ekaterininskaya
Markova
Ignatieva
Novo Astrakhanka
Verkhne Blagoveshchenka
BLAGOVESTCHENSK
Saghalien
Kiren
Uksari
Sindagin
Eldagon
Tudagon
Aigun
Tugan
Saoyejitun
Dayitun
Bolshoe
Kluigi
Dosudu (Pagan Temple)
Shitumiao
Tuguzo (Pagan Temple)
Santijan
Sutijan
Sinanchin
Elushki
Korotey
Novo
Sugevskaya
Piarkova
Vasilevska
Chesnakoka
Mikonskaya
Skovoltsina
Innokentievsk
Mikailovska
Kusatkina
Sigivoro
Pashkova
Storojevsk
Bashurova
Vladdevka
Ligun
Pomp
Kingu
Prishk
Ekaterino Nikolsk
Bakareva
Voznesenskaya
Platova
Belyayevskaya
Tamboska
Petropavlskaya
Mikailovsku
Krasnoyarovka
Koritinova
Ivu Mulinoska
Karnenka
Dimitri
Ibinskaya
Galyun
Buyarova
Ivanovskoye
Novo Ivanovka
Novo Gilchin
Novo Ulgin
Novo Dmitrievka
Novo Pavlovka
Novo Stanozernaya
Novo Sukholina
Novo Petrovka
Yegorievka
Troitskaya
Sredniebielskoye
Kolchi
Kolodskoye
Kolladkina
Mikolskoye
Aleksandrovskoye
Nikolayevskoye
R. Amur
R. Zavitaya
R. Bureya
R. Tom
R. Tom
R. Jeya
R. Sutundja
R. Unima
R. Turma
R. Aodo
R. Kumara
R. Korol
R. Sun
R. Sun
Gornaya
R. Lulaha
R. Koroli
R. Nanotu
R. Chen or Chian Ho
R. Kupri (Keerfen Ho)
R. Furpi
R. Ladja
R. Sahev
R. Amur
R. Ouia (Ouiu Ho)
R. Ui
R. Suli or Djirrik
R. Kun
R. Ichun
R. Delep
R. Limii or Ruur
Uyunhoidongi M.
Khingan Mts
L. Tunwozi (or Munbolazi)
Magnyeshun
Kelivulingvsho
Fungugeshun
Igemang
Detkes
Sus
XIIM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R. Tuin
R. Bureya
Dusselin Mts
Chas. Bureinskaya
R. Gorin
R. Turma or Turma
L. Ezuron
R. Kur
R. Urmi or Irmi
Vanda Mts
R. Amuri
Sarapiisk
Davenda
Litrolani
Pokporka
St. Kazarovka
KHABAROVSK
R. Kilimen
R. Bira
N. Spasskaya
V. Spasskaya
Petrovskaya
Vognesenskaya
Galovanova
Silinku
Zabplova
Nupge
Kerschova
Stepanovka
Kimrialin
Kemu
Mikail Semenovsk
Kuketova
Novaya
Dejneva
Kaertingeshan
Sierbaringeshan
Ilinugeshan
Butuhe
R. Not'
Kelkoma
Vankaton
R. Noru
Kamishka
Orenvaryskiee
(Panza)
St. Vasilevskaya
Stan. Pokrovskaya
St. Longakova
Sipku Mts
Kebrovaya
St. Kebentchika
Ilovayska
Vabuya
Vinilomi
St. Verikova
Vinsemska
Zabaikalsku
Butugeskano
Dorminskontovku
Krassitsuy
Kukeleva
St. Khor
Apukvyatitenskaya
Kissoleva
Dahovskaya
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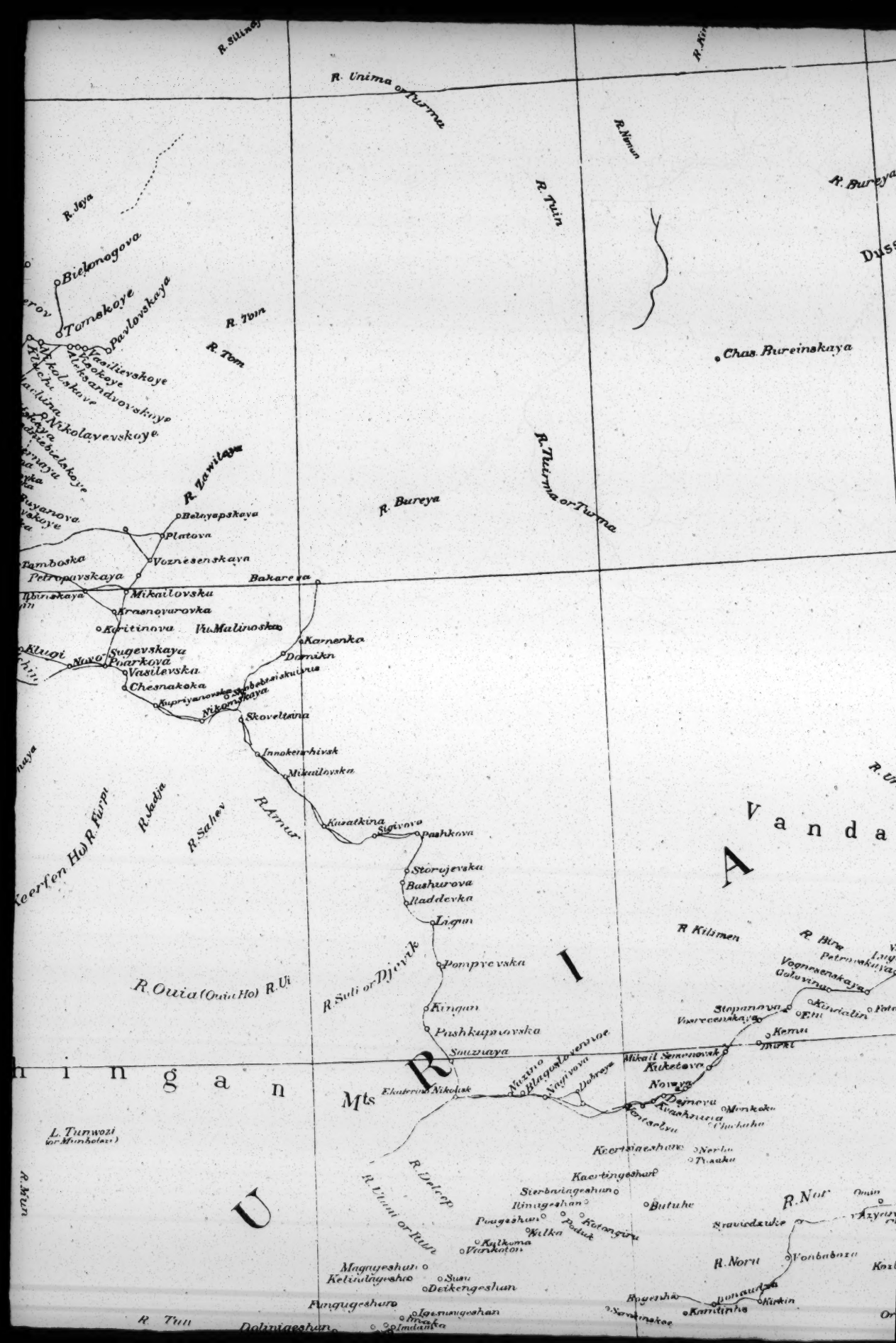
Mita Bo Mts
Ketuiken Mts
R. Kechuiken
Nonni
Sakardia
Odjal
L. Buin Ajal


R. Unima or Turma
R. Tuin
R. Bureya
R. Turma or Turma
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Bielonogova
Tomskoye
Pavlovskaya
R. Tom
Vasilievskoye
Alexeyevskoye
Alexandrovskoye
Nikolayevskoye
R. Zavitaya
Belogyarskaya
Platova
Voznesenskaya
Petropavlskaya
Bakareva
Mikailovska
Krasnovarovka
Karitinova
Malinovka
Karnenka
Damikn
Sugevskaya
Pvarkova
Vasilevska
Chesnakoka
Skoveltsina
Innokentievskiy
Mikailovska
Kuvatkina
Pashkova
Storojevska
Bashurova
Iladdevka
Ligun
Pompyevska
Kingan
Pushkinovska
Souzvaya
Mikail Semenovsk
Kuketova
Norova
Ekaterina Nikolsk
Nizina
Blagoslovennoe
Nagirova
Dubroya
Dejneva
Kaertingeshun
Sterbvingeshun
Ilimageshan
Pongeshun
Kalkoma
Viarkaton
Butuhe
Kotangiru
Magnyeshun
Kelindingeshun
Suau
Deikengeshun
Funguyeshun
Igesnungeshan
Imdanka
Dolinigeshun
R. Nor
Sravidzuke
Vonbabzu
Kirkin
Kamtuha
Chas. Bureinskaya
R. Kilimen
R. Suli or Djuvik
R. Ouria (Ouria Ho) R. Ui
R. Sahev
R. Amur
R. Ladja
R. Tuli
Mts
Vanda
A
I
R
U

R. Nummur
R. Ezoron
L. Ezoron
R. Amgun
R. Gorin
R. Tumi
R. Hungari
R. Kur
R. Amur
R. Botky
R. Huni
R. Kor
Sihotaalin Mts
Dussealin Mts
Anban Mt
Mitta Mt
Ketuiken Mts
Sipku Mt
Kondon
Kundu
Kukudi
R. Gorin
Tsankagei
Bolgo
Up. Tombovsk
Djeugme
Armarvo
Mulki
Okoi
Nanak
Daptunku
Sumo
Adivali
Ollunsk
Sindu
Onmui
Odjal
Sakardbia
Kurri
Manju-Angi
Kordyel
Cholach
Donao
Troitskaya
Susu
Nonni
Da. (Churinva)
R. Dondon or (Soly)
Seraplisk
Davunda
Litrolani
Pokporka
St. Kazarovka
KHABAROVSK
N. Spasskaya
V. Spasskaya
Zabylova
Nuppe
Kersakova
Kosakevich
Silinku
Fotangu
Por. Nevelskaya
Dzhovskaya
Kisseleva
St. Khor
F. Simkuri
Kukeleva
Krassitsuy
Zabaikalskaya
Buingoskaya
Vinogorna
St. Verukova
Vinogorska
Kebrovaya
St. Kebrintchika
Ilavayska
Vidnaya
St. Longakova
Koilovskaya
Faiza
Orenvaryskico (Fanza)
St. Vasilevskaya
Sta. Pokrovskaya
Chamudinza
C. Sosunov

R. Nenun
R. Tuin
R. Burkya
Dusselin Mts
Chas. Bureinskaya
R. Turima or Turma
R. Urmi or Irmi
Vanda Mts
R. Kur
R. Gorin
L. Ezoron
R. Ezoron
Konulon
Kanalu
Kuku
Djongm
Armarva
Mulki
Adjal
Sakarbia
Kurri
L. Balen Adjal
Troit
Suau
Norri
Da
Saraplisk
R. Amur
Dzyunda
Senniki
Peter Pustk
Litrolani
Voroshilov
St. Kasarovka
KHABAROVSK
Pokporka
New Cavalsk
Aigasi
N. Spasskaya
V. Spasskaya
Zabpilova
Nupge
Kerasakova
Kasakevich
R Kilimen
R Bira
Petrovskaya
Lugovaya
Silpaku
Vognesenskaya
Galovinu
Pos. Nov. Kuskaya
Derageevka
Tcheremyelya
Dachovskaya
Pompyevska
Kirigan
Pushkupuvska
Souzuaya
Nikolsk
Stepanova
Kuvialin
Pitanga
Kemu
Mirki
Mikail Semenovsk
Kuketova
Novaya
Dejnova
Monkaka
Chuchuha
Kissuleva
Ayatitenskaya
St. Khor
F. Sunkun
Kukeleva
Dormidontovka
Krassitsuy
Zabaikalesku
Butugoskano
R. Hurk
Anban
R. Kachuike
Ketuiken Mts
Mita Ro Mts
Venikovi
St. Venikova
Vinsemaka
Kebrovaya
St. Kebrintchika
Ilovayska
Golderya
Omin
R. Nor
Yabnaya
St. Longakova
Sipku Mt
Kaertingeshan
Sterbaingeshan
Ilimgeshan
Piageshan
Kulka
Kolkumia
Vonkaton
Butuhe
Kotongiru
Padut
Stavudzuke
R. Norn
Vonbinbira
Kozlovskaya
Faiza
St. Vasilevskaya
Stan. Pokrovskaya
Orenvaryskiko
(Panza)
Stan. Zurubina
(Netcharova)
Bikin
Suau
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Lgenmingeshan
Bugeshia
Kamdinka
Lunaudzu
Kirkin
Nanaimakee
R. Orsoro
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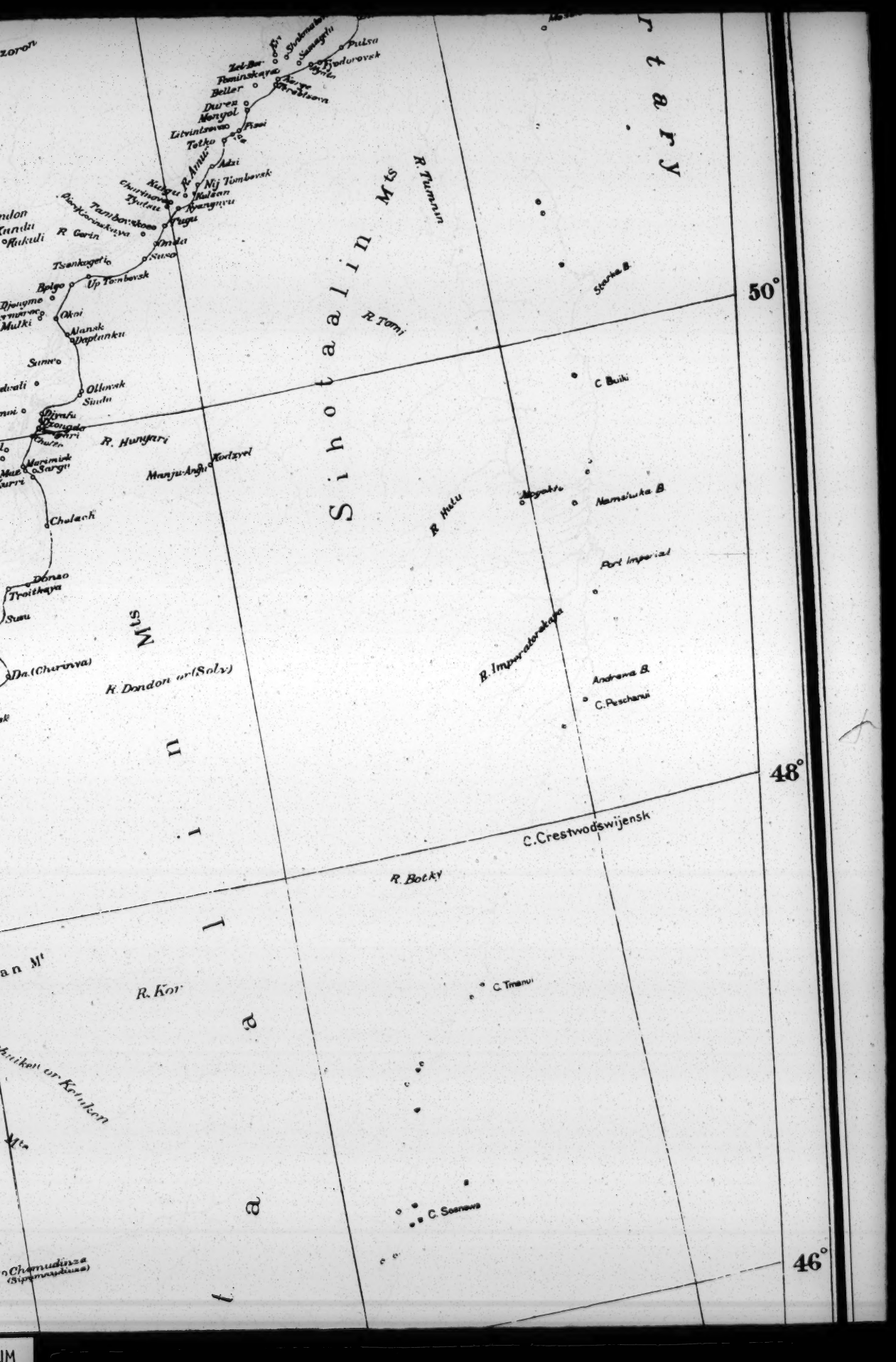
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R. Amur
R. Gorin
R. Kor
C. Crestwodswijensk
C. Tmanui
C. Soerawa
C. Buiki
C. Puschanui
Port Imperial
Andrewa B.
Namsiuka B.
Starka B.
Mayaka
Manju-Angi
Kordzyel
Chalach
Dondon ur (Solv)
Da. (Churinva)
Up Tombovsk
Nij Tombovsk
Tsankogetio
Olinak
Sudu
Sunro
Okoi
Nanak
Daptunku
Beller
Duren
Menyel
Litvinowo
Tatko
Adzi
Fusi
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Bolgo
Mulki
Kukuli
Marimik
Sargi
Dzonao
Troitkaya
Susu
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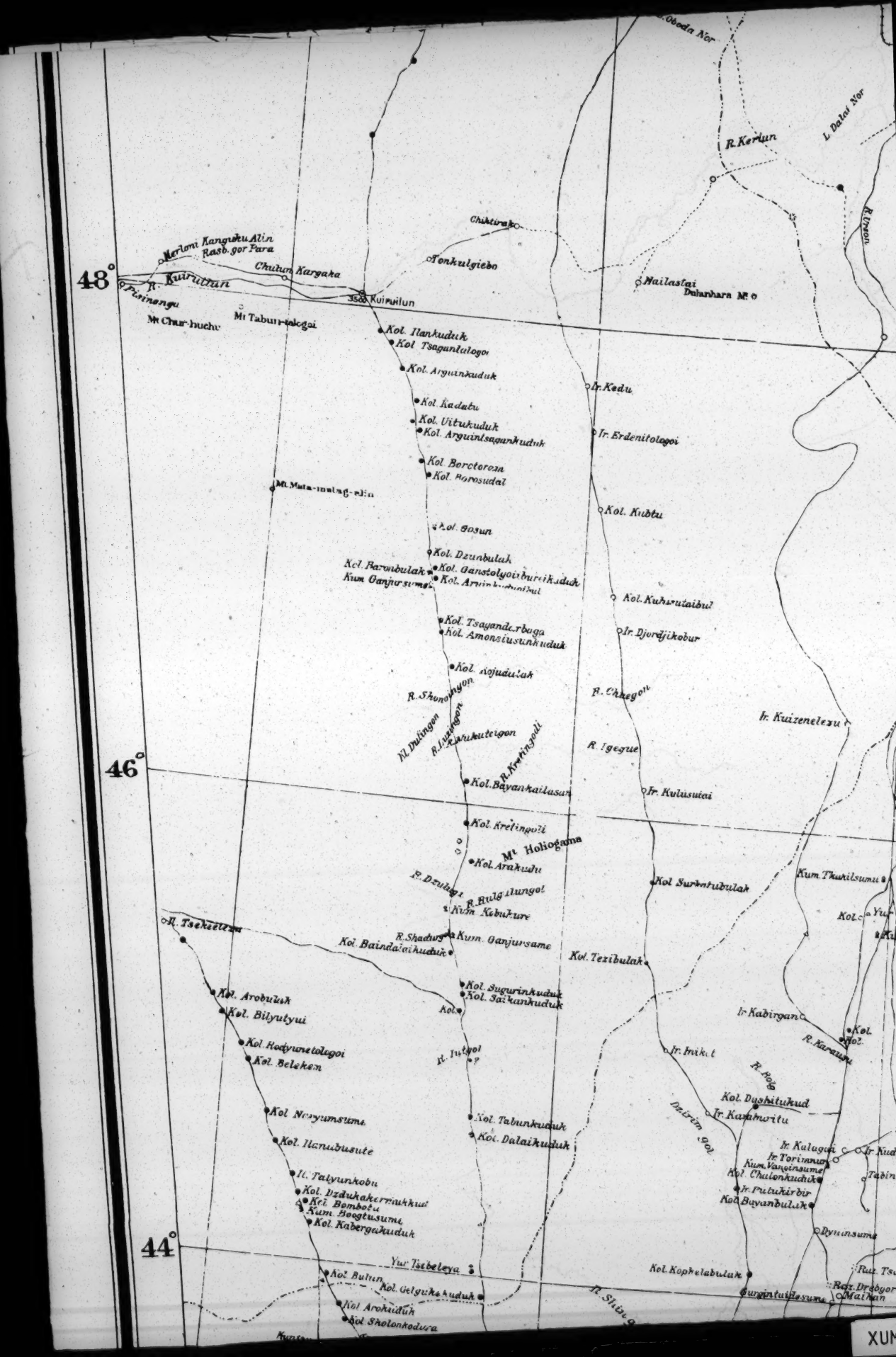
48°
46°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46°
44°
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R. Kerlun
L. Dalai Nor
R. Kuirultun
Kuirultun
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Mt. Chur-huchu
Chultura Kargaka
Tonkulgiebo
Hailastai
Daharhara Mt.
Kol. Ilankuduk
Kol. Tsagantalogoi
Kol. Arguinkuduk
Kol. Kadatu
Kol. Vitukuduk
Kol. Arguintsagankuduk
Kol. Borctoroa
Kol. Borosudal
Ir. Kedu
Ir. Erdenitologoi
Kol. Kubtu
Kol. Kuhsutaibul
Ir. Djordjikobur
Ir. Kuizenelezu
R. Chkegon
R. Igegue
Kol. Bayankailasun
Ir. Kulusutai
Kol. Kreltingoli
Mt. Holiogoma
Kol. Arakuduk
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Dyunsumu
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Yur. Tsebeleya
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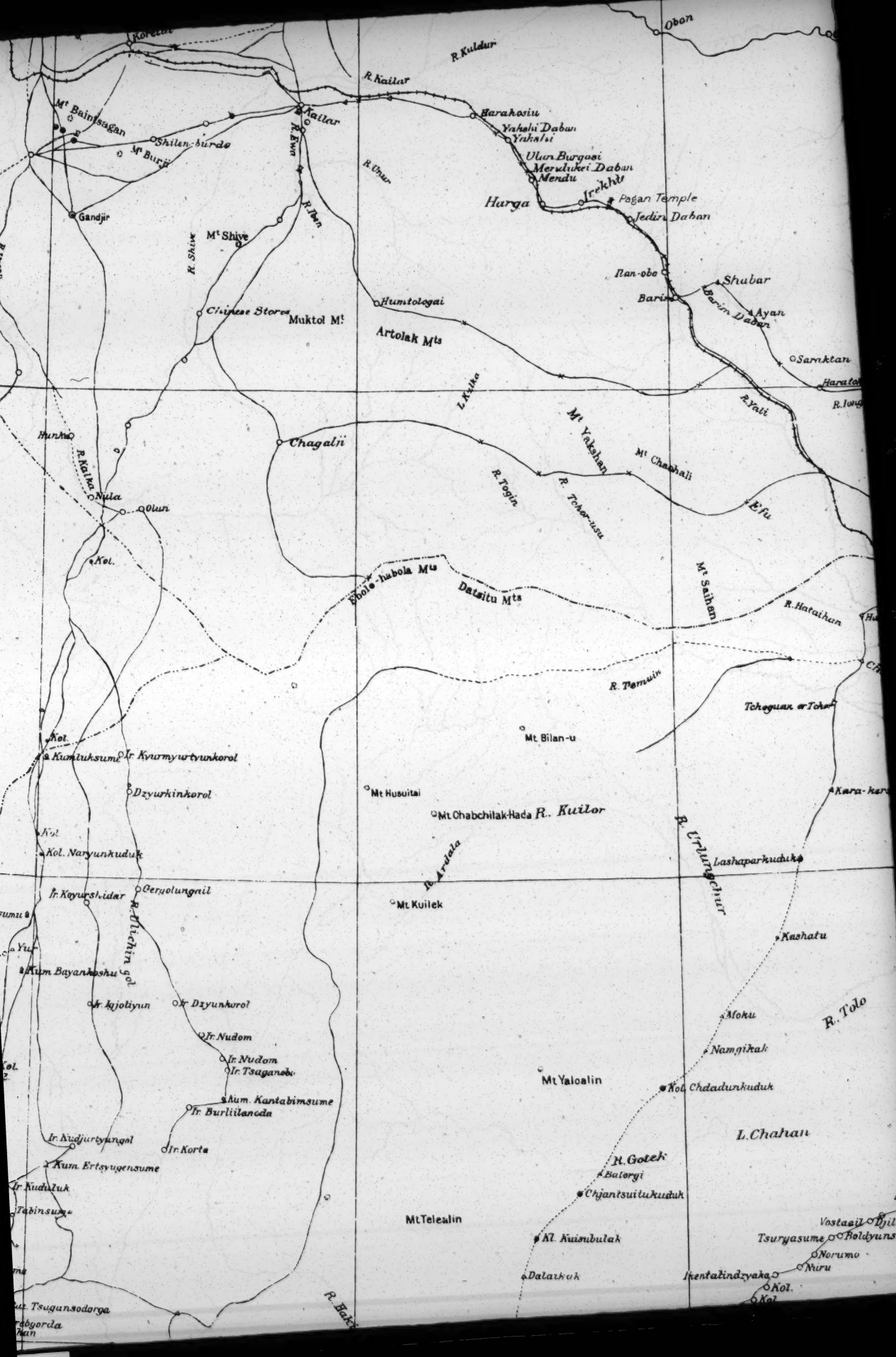
Oban
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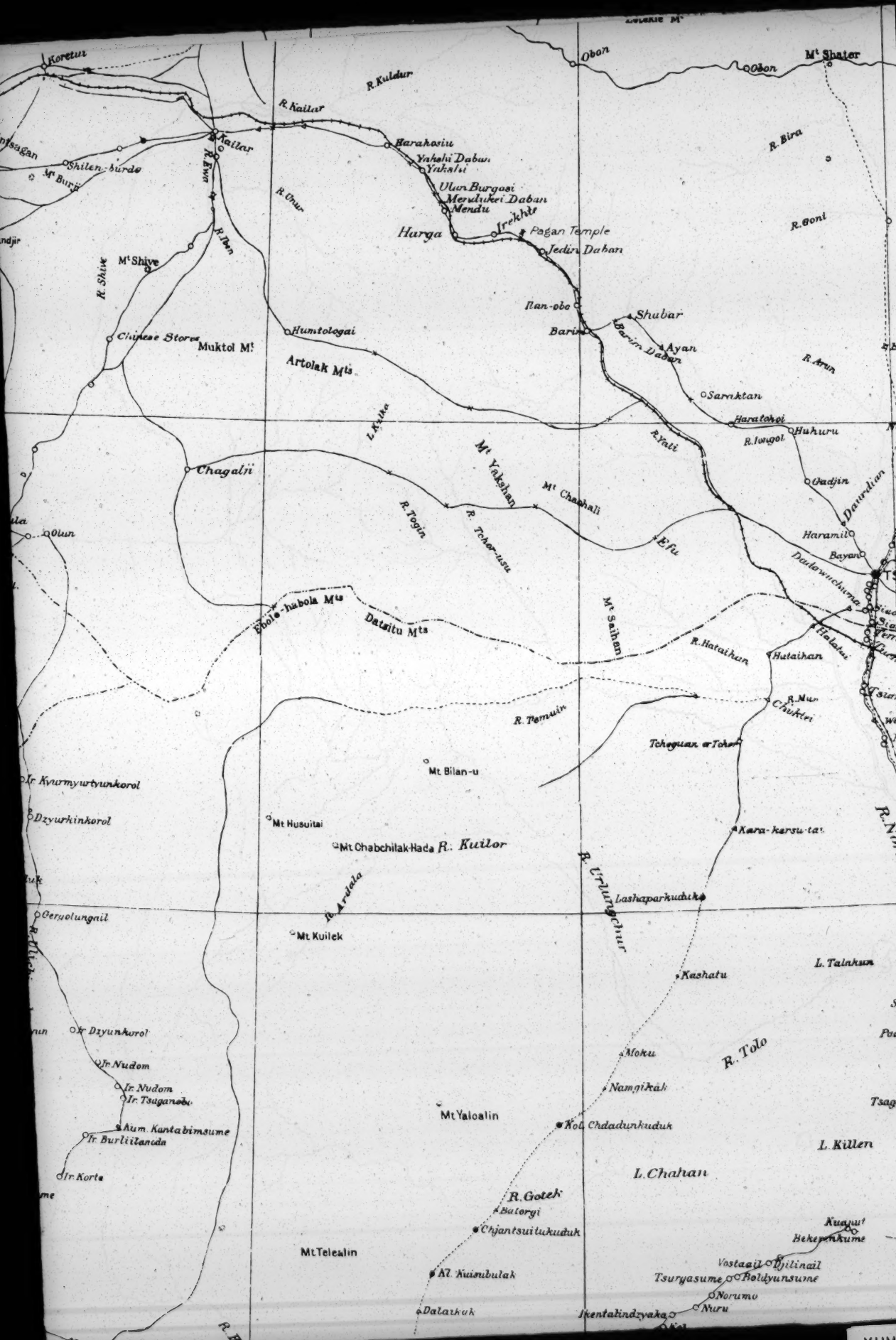
R. Kailar
Mt Baintsagan
Kailar
Harahosiu
Yahshi Daban
Yakalsi
Ulun Burgasi
Merdukei Daban
Mendu
R. Ewn
R. Unur
Irekhit
Pagan Temple
Hurga
Jedira Daban
Shilen-burdo
Mt Burji
Gandjir
R. Ilan
Mt Shive
R. Shive
Ilan-obo
Shubar
Barin
Barin Daban
Ayan
Humtologai
Chinese Store
Muktol Mt
Artolak Mts
Samktan
L. Kuika
R. Yali
Mt Yakshan
Mt Chashali
Hunka
R. Kalka
Chagalii
Nula
Olun
R. Togin
R. Tehar-usu
E'fu
Kol.
Ebole-hubola Mts
Datsitu Mts
Mt Saihan
R. Hataihan
R. Temuin
Tchoguan or Tchor
Mt Bilan-u
Kol.
Kumituksume
Ir. Kyurmyurtyunkorol
Dzyurkinkorol
Mt Husuitai
Mt Chabchilak-Hada
R. Kuilor
Kara-kere
Kol.
Kol. Naryunkuduk
R. Urlurgehur
Lashaparkuduk
R. Ardala
Ir. Koyurshidar
Gergolungail
Mt Kuilek
R. Ulichin gol
Kushatu
Kum. Bayankoshu
Ir. Kjoliyun
Ir. Dzyunkorol
Moku
R. Tolo
Ir. Nudom
Namgikak
Ir. Nudom
Ir. Tsaganobu
Mt Yaloalin
Kum. Kantabimsume
Ir. Burliilancda
Kol. Chdadunkuduk
L. Chahan
Ir. Kudjurtyungol
Ir. Korta
Kum. Ertsyugensume
R. Gotek
Ir. Kudduluk
Balergi
Chjantsuitukuduk
Tabinsume
Mt Telealin
Vostasil
Tsuryasume
Boldyuns
Kl. Kuisubulak
Norumo
Muru
Dalaikuk
Ikentalindzyaka
Kol.
Kol.
R. Baka
Tsugansodorya
Tabyorda


Koretur
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R. Kailar
Kailar
Harakosiu
Yaholi Daban
Yakshi
Ulun Burgosi
Merdukei Daban
Mendu
Irekhit
Harga
Pagan Temple
Jedin Daban
Oboon
Mt Shater
R. Bira
R. Goni
R. Ulun
R. Ilan
R. Shive
Mt Shive
Chinese Store
Muktol Mts
Humtologai
Artolak Mts
Ilan-obo
Shubar
Barin
Barin Daban
Ayan
R. Arun
Samaktan
Haratchei
R. Iwgol
Hukuru
R. Yaki
L. Kuka
Mt Yakshian
Mt Chachali
Chagalii
R. Togin
R. Tchar-usu
Efu
Dadjin
Daurdian
Haramit
Bayan
Olun
Ebola-Habola Mts
Datsitu Mts
Mt Saihan
R. Hataihan
Hataihan
Halaitsi
R. Nur
Chuktei
R. Temuin
Tcheguan or Tchar
Mt Bilan-u
Ir. Kyurmyurtyunkorol
Dzyurkinkorol
Mt Husuitai
Mt Chabchilak-Hada
R. Kuilor
Kara-kersu-tai
R. Ardola
R. Urlungchur
Lashaparkuduk
Gerulungail
Mt Kuilek
L. Talnkun
Kashatu
Ir. Dzyunkurol
Ir. Nudom
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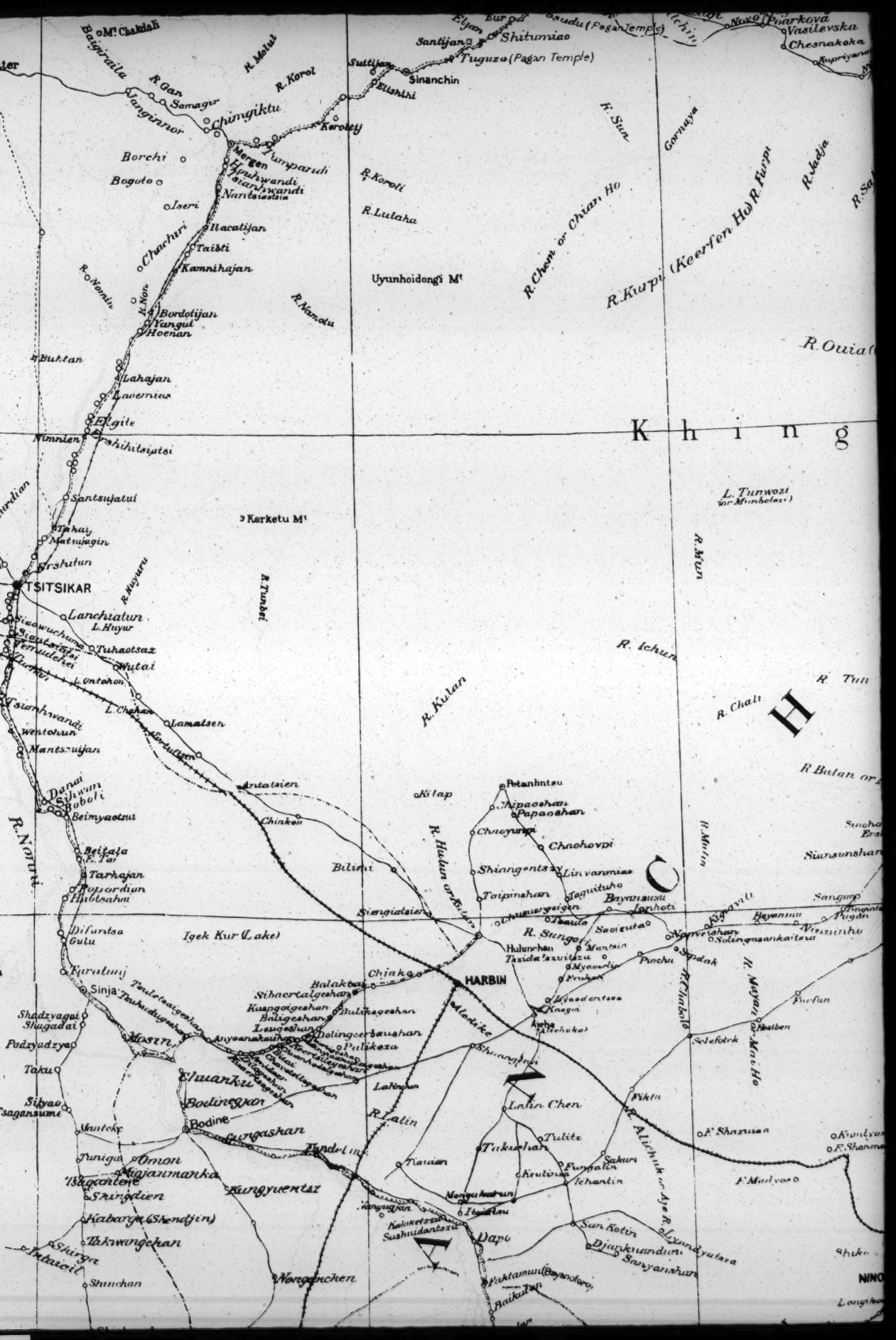
Ir. Tsuganobu
Aum. Kantabimsume
Ir. Burliitanida
Ir. Korta
Moku
R. Tolo
Namgikak
Mt Yaloalin
Kol. Chdadunkuduk
L. Killen
L. Chahan
R. Goteh
Batorgi
Chjantsuitukuduk
Mt Telealin
Kuaguit
Hekepenkume
Vostasil
Djilinail
Tsuryasume
Boldyunsume
Norumo
Nuru
Al. Kuisubulak
Dalaikuk
Ikentakindzyaka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Chimyiktu
R. Korol
Sultijan
Sinanchin
Elishihi
Santijan
Shitumiao
Tuguzo (Pagan Temple)
Vasilevska
Chesnakoka
Borchi
Bogoto
Iseri
Merten
Tumparidi
Hanhwandi
Siamhwandi
Nantaisalata
Karoltij
R. Karoli
R. Lulaha
R. Sun
Gorniye
R. Chein or Chian Ho
R. Kupi (Keerfen Ho)
R. Ladjia
Chachuri
Hacatijan
Taibti
Kamnihajan
R. Nonin
R. Nor
Bordolijan
Yangui
Hoenan
R. Nanotu
Uyunhoidongi Mt
R. Kupi
R. Ouia
Buhtan
Lahajan
Lanemiao
Elgile
Nimnien
Shihitsintsi
Khing
Santsujatui
Kerketu Mt
L. Tunwozi
(or Munbolazi)
R. Mun
Tahay
Matsujagin
Arshutun
TSITSIKAR
R. Huyuri
R. Tunbei
Lanchiatun
L. Huyur
Tuhaotsaz
Mutai
L. Ontohon
L. Chehan
Lamatsen
Wentohun
Mantsujan
R. Ichun
R. Tun
R. Kulan
R. Chali
H
R. Butan or
Dunai
Sybum
Boboli
Beimyaotsu
Antaisien
Chinken
Kilap
Pitanhintsu
Papaoshan
Chuoyuapi
Chaohovpi
R. Halun or Kulun
R. Nonni
Beitala
Tarhajan
Popordiun
Hubtsahn
Bilinai
Shinngentsz
Taipinshan
Siangiatsien
R. Sungari
C
R. Mulin
Difuntsa
Gulu
Igek Kur (Lake)
Halaktai
Chiako
HARBIN
Sibnertalgeshan
Kuapgoigeshan
Buligeshan
Lengeshan
Aldzike
Shadzvagai
Shagadai
Podzyadzya
Taku
Sinja
Tsuhaidzingshan
Mosin
Bodingsyan
Bodine
Lungashan
Tundlin
Sitvao
Manteke
Juniga
Omon
Isagantene
Shingdien
Kabarga (Shendjen)
Shirga
Intaicil
Shinchan
Wongonchen
Kungyuentsz
Hajanmanka
Tsitsikar
Hulunchen
Tsaida'azuitsza
Mantsin
Myaoerdin
Penchu
Sipodak
Kaoga
Arbe
Shuangyashi
Lalin Chen
Tulite
Tukushan
Sakuri
Fungalin
Ichantin
Kruliwa
Nongyuhotun
Kalaketsza
Sushuidantsza
Dapu
Sun Kotin
Djangkuandun
Shuiyanshan
Baiktai
Fiktu
R. Alichuk or Aye
R. Lyundyulaza
F. Shanxuan
F. Shanma
F. Mudyas
Kunlyan
Shuko
NINC
Longkou
Hailben
Burtan
R. Nonni
R. Mutin
R. Hailun
R. Lalin
R. Tsitsihar
Siangsungshan
Sangun
Pugan
Nenzuinho
Beyannu
Siangtsaishan
Nonnyuchan
Suilingsankaitsza
Saoizuta
Lanhoti
Chuanyeigen
Shinngentsz
Linyanmiao
Jaguituho
Bayansusu
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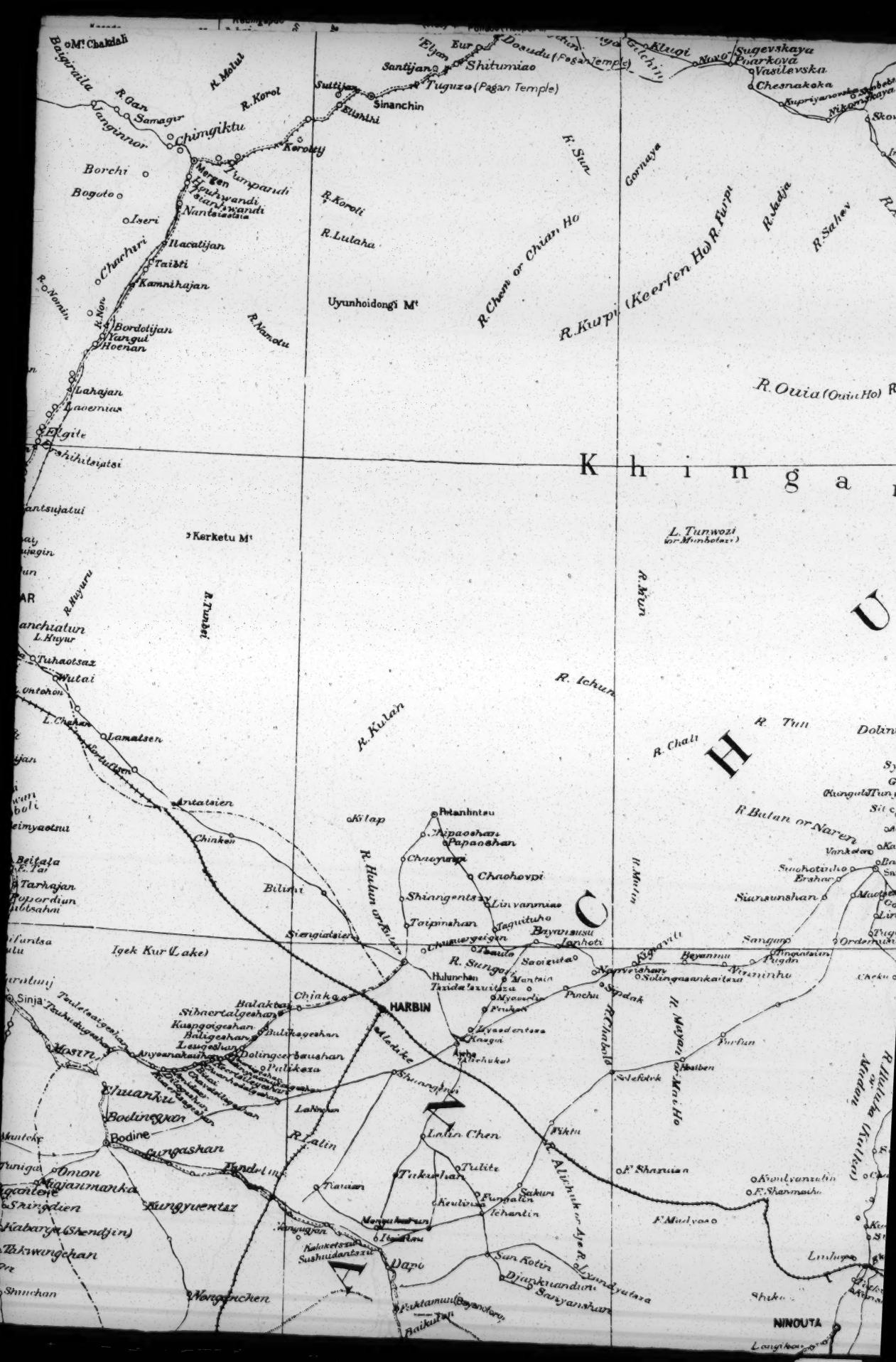
Jaguituho
Bayans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HARBIN
NINGUTA
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R. Molul
R. Oan
Langinnor
Samagir
Chimgiktu
R. Korol
Kerolty
Borchi
Bogoto
Iseri
Mergen
Houhwandi
Tiarhwandi
Nantsiadia
Ilacatijan
Chuchuri
Taisti
Kamnihajan
R. Nonni
R. Kor
Bordotijan
Hangul
Hoenan
Lahajan
Laoernias
Egite
Shihitsiatsi
Antsujatui
Korketu Mt
R. Huyuru
R. Tunlei
Anchiatun
L. Huyur
Tuhaotsaz
Mutai
Ontchon
L. Chehan
Lamatsen
Antatsien
Chinken
Beitata
Tarhajan
Topordun
Bilimi
Igek Kur (Lake)
Sinja
Touletsaigeshan
Tsuhuchugeshan
Hasin
Balaktsa
Sibaertaigeshan
Kuangoigeshan
Baligeshan
Lesugeshan
Anyeanakaishan
Dolingeer Saushan
Pulikeza
Chiako
Chaikeshan
Pulikageshan
Chaikeshan
Elmanku
Bodingeyan
Bodine
Gungashan
Omon
Hajaiannanka
Shingdien
Kungyuentsz
Kabarga (Shendjin)
Tsikwangchan
Shuichan
Mongenchen
Kilap
Petanhintsu
Papaoshan
Chaoyunpi
Chaohoypi
Shinngentsza
Linvanmiao
Taipinshan
Taguituho
Siengiatsien
Bayansusu
Jonhoti
R. Sungori
Hulunchan
Taxidatzuitsza
Saoizuita
Nanmin
Myaodin
Pruhen
Pinchu
Sipdak
Myaodentsza
Kiagu
Arhe
Aledike
Shuangjingi
Lalin
Lalin Chen
Tulite
Tinkanlan
Tanuan
Fungalen
Sakuri
Keulinza
Ichantin
Mongushanan
Yangyujan
Kalaketsza
Sushudantszu
Dapi
Sun Kotin
Djankuandian
Sanyanshan
Ruhtamuul
Baikuhali
Boyandong
R. Sungari
R. Hulun or Kulan
R. Kulan
R. Ichun
R. Chali
R. Tun
R. Mur
R. Mur
R. Argun
R. Hailar
R. Aliehuk or Aye
R. Nonni
R. Sun
R. Korolu
R. Lulaha
R. Nanodu
R. Chen or Chian Ho
R. Kupi (Koerfen Ho)
R. Furpi
R. Jadja
R. Sahev
Uyunhoidongi Mt
Gornaya
Eur
Elyan
Santijan
Shitumiao
Tuguza (Pagan Temple)
Sultijan
Sinanchin
Elushiri
Dosudu (Pagan Temple)
Klugi
Novo
Sugevskaya
Pnarkova
Vasilevska
Chesnakoka
Kupriyanovka
Nikonskaya
R. Ouia (Ouin Ho)
L. Tunwozi (or Munbotsz)
R. Butun or Naren
R. Tun
R. Chali
Dolin
Kunguls Tun
Vankotsz
Suhotindo
Ershor
Siansunshan
Sangun
Ordermin
Heyannu
Pugan
Ningentsun
Nimininho
Solingasankaitsza
Kigavali
Nanyeshan
Purfun
Hailun
Selefetsk
Fikin
F. Shanuan
F. Shanmaho
F. Mudyao
Kiuilyanzubin
Linlupo
Shiko
Langikan
Dolingeer
Tsikwangchan
Shuichan
Mongenchen
Kabarga (Shendjin)
Hajaiannanka
Omon
Bodine
Bodingeyan
Elmanku
Hasin
Sinja
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Bilimi
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Lamatsen
Chinken
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Laoernias
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Taisti
Kamnihajan
Bordotijan
Hangul
Hoenan
Nantsiadia
Tiarhwandi
Houhwandi
Mergen
Iseri
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Borchi
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Dosudu (Pagan Temple)
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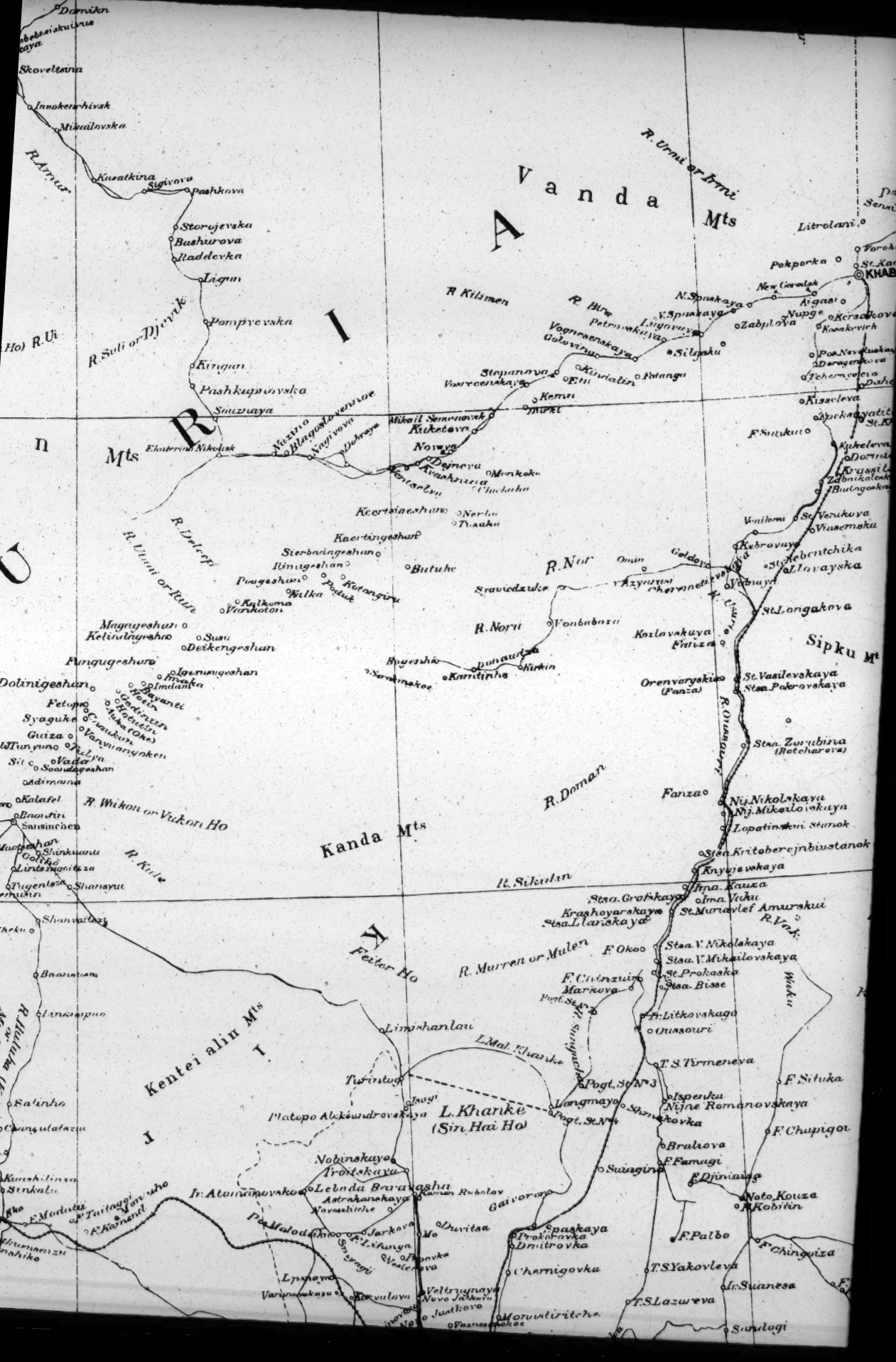
Vasilevska
Chesnakoka
Kupriyanovka
Nikonskaya


R. Amur
R. Urmi or Irmi
Vanda Mts
Litrolani
Pokporka
KHAB
New Cavalak
Argasi
N. Spasskaya
V. Spasskaya
Zabaikova
Nupge
Kerakovka
Kosakevich
R. Ilira
R. Kilimen
R. Suli or Djerik
Pompyevska
Vogneesenskaya
Silyaku
Stepanovka
Kiriallin
Petangi
Kemu
Mikail Semenovsk
Kuketova
Nazino
Blagoslovennoe
Ekaterino Nikolsk
Mts
Kissileva
Apokayatit
F. Sinkuto
Kukelevka
Dormidontovka
Krassilnikova
Zabaikalsk
Buringoska
Vinikomi
St. Verukova
Vinsemska
Kebrovaya
St. Kebrintchika
Ilovayska
Goldova
R. Nuf
Omin
Sravicdzuke
Azyrgini
Charvinetz
Vochnaya
St. Longakova
R. Norui
Vonbabnzu
Kozlovskaya
Fatizka
Sipku Mts
Orenvaryskico (Fanza)
St. Vasilevskaya
Staa. Pokrovskaya
R. Onagoda
Staa. Zurubina (Retcharova)
Fanzao
Nij. Nikolskaya
Nij. Mikailovskaya
Lopatinskoi Stanok
Staa. Kritoberejnbiustanok
Knyazevskaya
Inna. Kauza
Staa. Grofskaya
Inna. Vuku
Krashoyarskaya
St. Muravlef Amurskui
Staa. Llariskaya
R. Vuk
R. Doman
Kanda Mts
R. Sikulan
R. Wikon or Vukon Ho
R. Kule
Kentei alin Mts
I.
K
Feiter Ho
R. Murren or Mulen
F. Okoo
Staa. V. Nikolskaya
Staa. V. Mikailovskaya
St. Prokaska
Staa. Bissc
F. Chirinzuin
Markova
Pogt. St. N°2
Wiku
F. Litkovskago
Onissowri
L. Mal. Khanka
Limanhanlau
T. S. Yermeneva
F. Situka
Turintsu
Pogt. St. N°3
Ispenka
Nijne Romanovskaya
Jaogi
Platopo Alekswandrovskaya
L. Khanka (Sin Hai Ho)
Vongmayo
Pogt. St. N°4
Shmakovka
F. Chupigor
Braliova
F. Famugi
Nobinskaya
Troitskaya
Suingin
F. Djiniaus
Noto Kouza
Kobitin
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Lebida Baranovskaya
Astrakanskaya
Rubalav
Galvorino
Spaskaya
Prokofevka
Dmitrovka
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Varvarovskaya
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Nikolaevka
Mikailovka
Ilinka
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Dimitrovka
Shkoveltsina
Innokentievskaya
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Kusatkina
Sigivara
Pashkova
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Maddevka
Ligun
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Smirnaya
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Baondin
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Shankuanu
Golika
Shanayui
Shanwaiozy
Baanaiman
Kanzangpuo
Kalinka
Changulafazu
Kunshilinza
Sinkalu
Modutai
Turiangoi
Kanandi
Nonuho
Shuniamanzu
Shahike
Yuriangmanyoken
Tsuyuno
Sil c.
Vuku (Oka)
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Godinzin
Hotelin
Bayanei
Ilmanka
Imaka
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Kalkuma
Varikaton
Podut
Wilka
Kotangiru
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Sterbringeshan
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Fatizka
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Nobinskaya
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Dimitrovka
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Storojevska
Bashurova
Maddevka
Ligun
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Kirigun
Smirnaya
Mikail Semenovsk
Kuketova
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Blagoslovennoe
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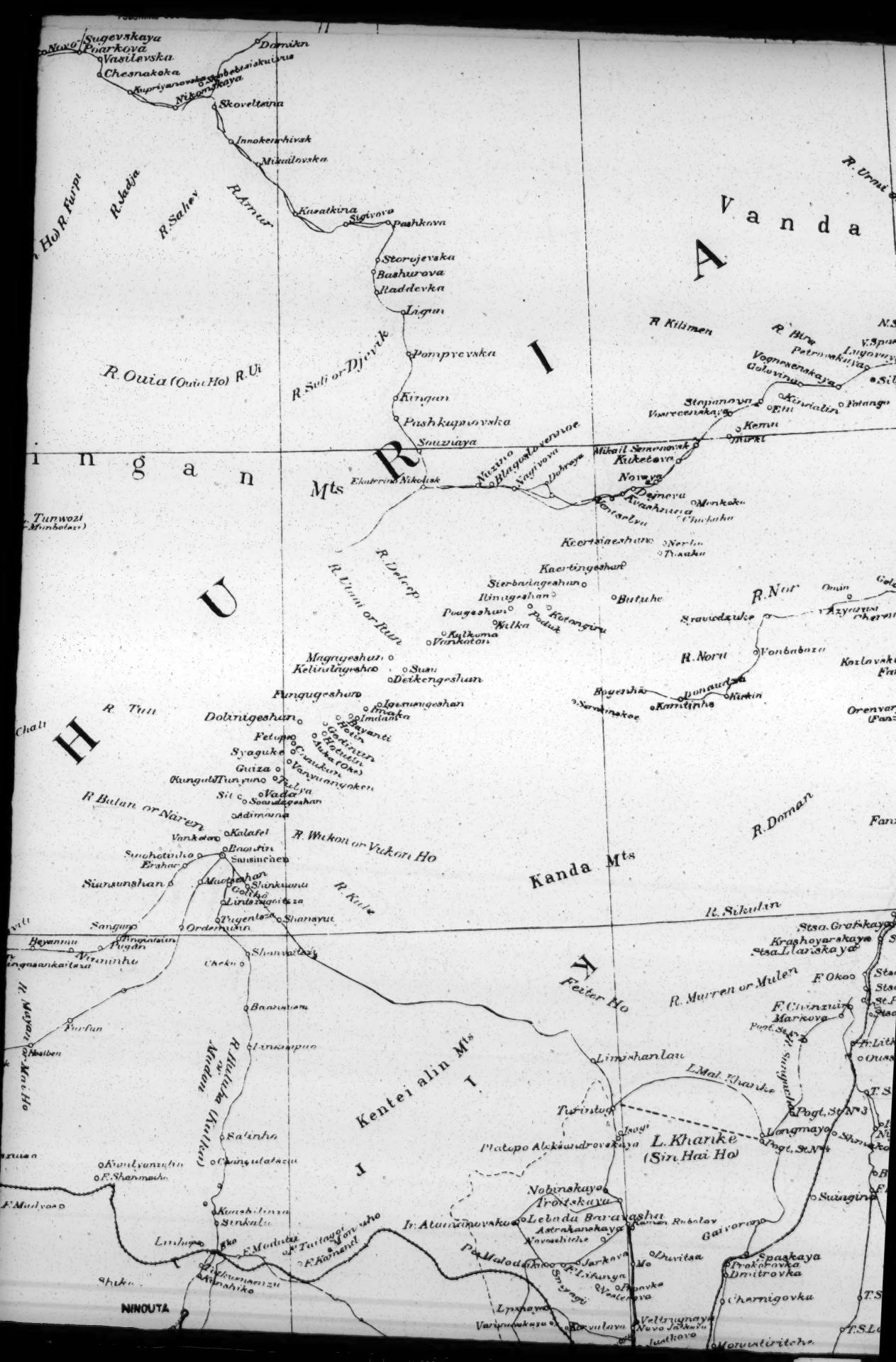
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Bashurova
Liguri
Pompyevska
Kingan
Pashkupnovska
Souzuiaya
Nuzvia
Blagoslovennoe
Nagivova
Dobroya
Mikail Semenovsk
Kuketova
Noiova
Dejneva
Kvashnuva
Monkoka
Kaertingeshan
Sierbaingeshan
Ilmingeshan
Butuhe
Paugeshan
Podut
Kulka
Kulkoma
Vankaton
Magnigeshan
Kelindaigeshan
Susu
Deikengeshan
Fungugeshan
Igesmingeshan
Dolanigeshan
Imaka
Ilmdanka
Fetupa
Syaguke
Guiza
Vadaya
Sil
Soandagesham
Adimaina
Kalafel
Baoshin
Suisuncheu
Shankuma
Lintsingeitsza
Shanayu
Ordonmukin
Shanmaitzy
Baoshuan
Kanssupuo
Salinho
Kunchilinza
Sinkalu
Linshupo
Mudutza
Turtaga
Kamenni
Ninguta
Kentei alin Mts
Kanda Mts
Vanda
Amur
Suli or Djirik
Ouia (Ouin Ho)
Tunwozi
Tun
Dolep
Liuni or Iun
Nor
Norui
Vonbabuzu
Kirkin
Kamilinka
Bogenka
Orenvar
Dorman
Wukon or Vukon Ho
Balan or Naren
Sikulan
Feiter Ho
Murren or Mulen
Limoshanlan
L. Khanke
(Sin Hai Ho)
Platopo Alekseevskaya
Nobinskaya
Troitskaya
Lebada
Astrakanskaya
Ir. Atamanovska
Pk. Muloudinoo
Jarkova
Ilmitsa
Spaskaya
Prokofievka
Dmitrovka
Charnigovka
Galvorina
Kirvialin
Stepanovka
Kemu
Mirki
Patrovskaya
Vognevenskaya
Gelivinka
Kilimen
Blin
Urmi
Stsa. Grafskaya
Krashoyarskaya
Stsa. Larskaya
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F. Chinzuin
Markova
Pogt. St. N° 2
Pogt. St. N° 3
Pogt. St. N° 4
Vangmaya
Suingin
Kaivalyanzuin
F. Shanmaiho
F. Mudyoo
Lmal. Khanke
Jagy
Ir. Lituya
Vealenova
Lyubova
Varipudskaya
Vaitzygnaya
Nuvo Jarkova
Ivatkova
Morvuitiritchka
T. S.
Sangup
Beyanmu
Pugan
Ningsanhaikaitsza
Ninginhe
Chaku
Burtun
Abalben
Ir. Mudyoo Ho
Ir. Kilaba (Kirin)
Ir. Sungari
Ir. Sungari
Ir. Sikulan
Ir. Liti
Ir. Ouss
Ir. Amur
Ir. Amur
Ir. Ouia (Ouin Ho)
Ir. Suli or Djirik
Ir. Kilimen
Ir. Urmi
Ir. Nor
Ir. Norui
Ir. Dorman
Ir. Kirkin
Ir. Kamilinka
Ir. Bogenka
Ir. Vonbabuzu
Ir. Kaertingeshan
Ir. Sierbaingeshan
Ir. Ilmingeshan
Ir. Butuhe
Ir. Paugeshan
Ir. Podut
Ir. Kulka
Ir. Kulkoma
Ir. Vankaton
Ir. Magnigeshan
Ir. Kelindaigeshan
Ir. Susu
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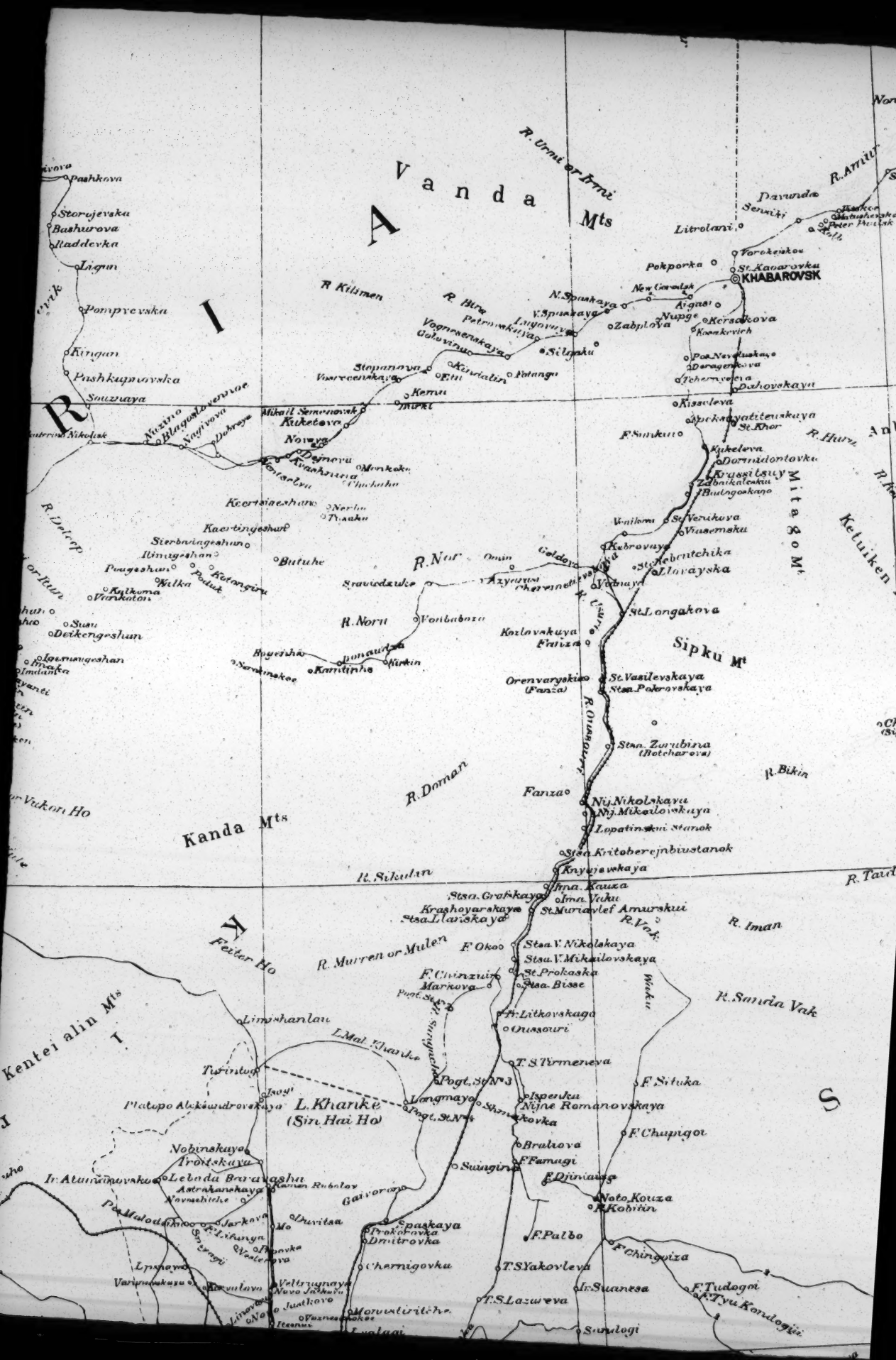
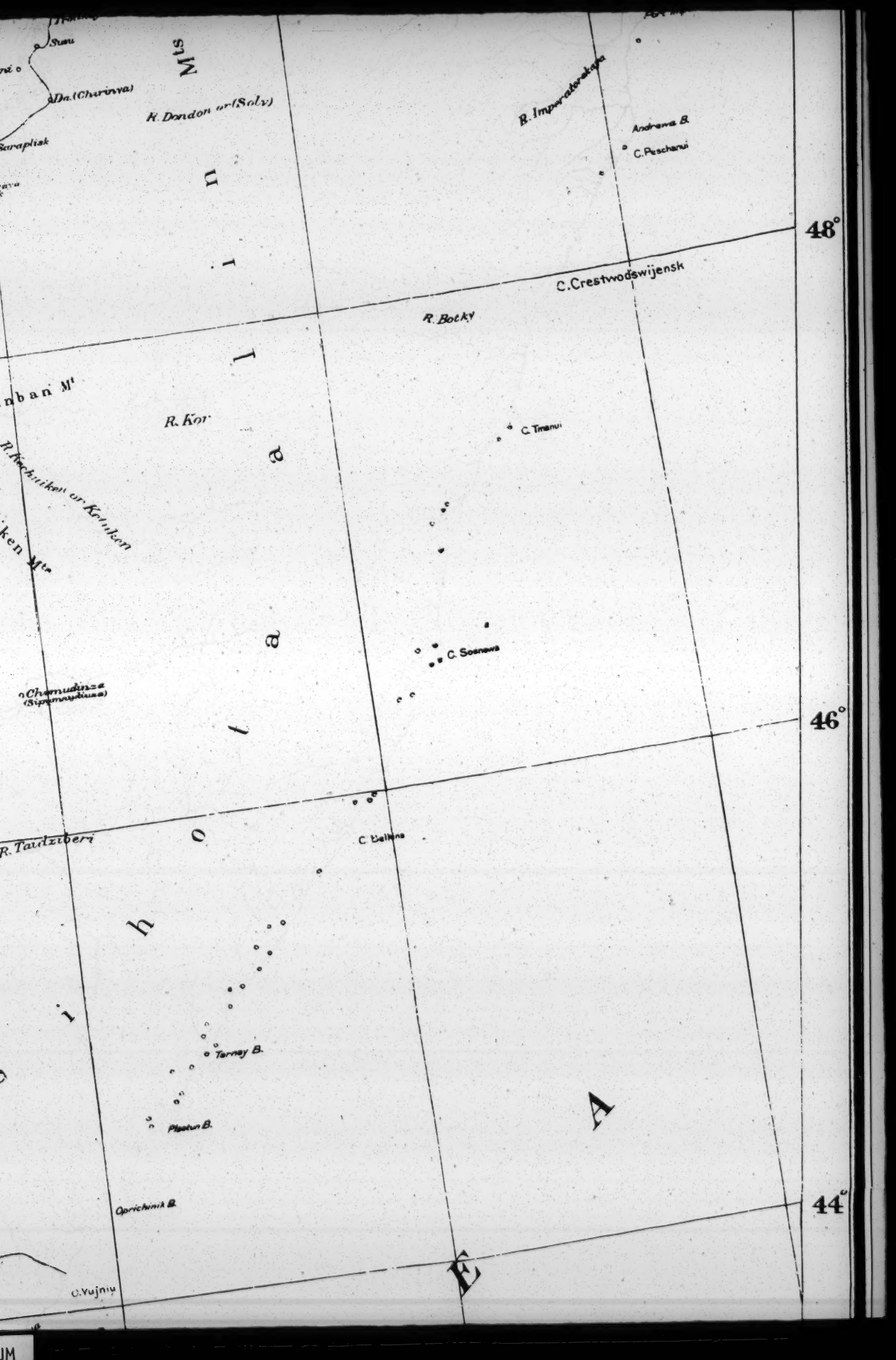
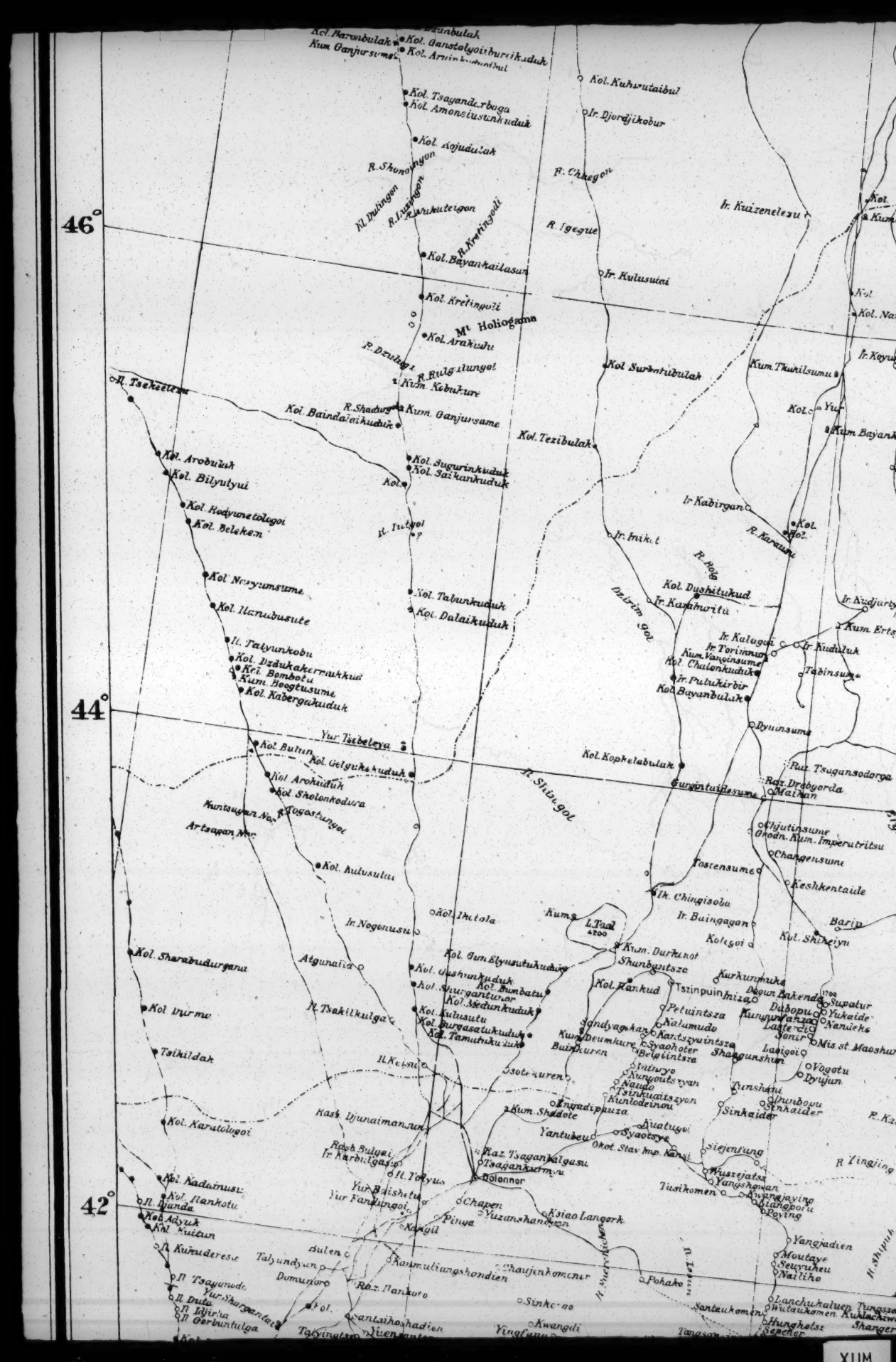
Ir. Fungugeshan
Ir. Igesmingeshan
Ir. Dolanigeshan
Ir. Imaka
Ir. Ilmdanka
Ir. Fetupa
Ir. Syaguke
Ir. Guiza
Ir. Vadaya
Ir. Sil
Ir. Soandagesham
Ir. Adimaina
Ir. Kalafel
Ir. Vankaton
Ir. Baoshin
Ir. Suisuncheu
Ir. Shankuma
Ir. Lintsingeitsza
Ir. Shanayu
Ir. Ordonmukin
Ir. Shanmaitzy
Ir. Baoshuan
Ir. Kanssupuo
Ir. Salinho
Ir. Kunchilinza
Ir. Sinkalu
Ir. Linshupo
Ir. Mudutza
Ir. Turtaga
Ir. Kamenni
Ir. Ninguta
Ir. Kirvialin
Ir. Stepanovka
Ir. Kemu
Ir. Mirki
Ir. Galvorina
Ir. Vognevenskaya
Ir. Patrovskaya
Ir. Gelivinka
Ir. Kilimen
Ir. Blin
Ir. Urmi
Ir. Nor
Ir. Norui
Ir. Vonbabuzu
Ir. Kirkin
Ir. Kamilinka
Ir. Bogenka
Ir. Dorman
Ir. Wukon or Vukon Ho
Ir. Balan or Naren
Ir. Sikulan
Ir. Feiter Ho
Ir. Murren or Mulen
Ir. Limoshanlan
Ir. L. Khanke
(Sin Hai Ho)
Ir. Platopo Alekseevskaya
Ir. Nobinskaya
Ir. Troitskaya
Ir. Lebada
Ir. Astrakanskaya
Ir. Ir. Atamanovska
Ir. Pk. Muloudinoo
Ir. Jarkova
Ir. Ilmitsa
Ir. Spaskaya
Ir. Prokofievka
Ir. Dmitrovka
Ir. Charnigovka
Ir. Galvorina
Ir. Kirvialin
Ir. Stepanovka
Ir. Kemu
Ir. Mirki
Ir. Patrovskaya
Ir. Vognevenskaya
Ir. Gelivinka
Ir. Kilimen
Ir. Blin
Ir. Urmi
Ir. Stsa. Grafskaya
Ir. Krashoyarskaya
Ir. Stsa. Larskaya
Ir. F. Okoo
Ir. F. Chinzuin
Ir. Markova
Ir. Pogt. St. N° 2
Ir. Pogt. St. N° 3
Ir. Pogt. St. N° 4
Ir. Vangmaya
Ir. Suingin
Ir. Kaivalyanzuin
Ir. F. Shanmaiho
Ir. F. Mudyoo
Ir. Lmal. Khanke
Ir. Jagy
Ir. Ir. Lituya
Ir. Vealenova
Ir. Lyubova
Ir. Varipudskaya
Ir. Vaitzygnaya
Ir. Nuvo Jarkova
Ir. Ivatkova
Ir. Morvuitiritchka
Ir. T. S.
Ir. Sangup
Ir. Beyanmu
Ir. Pugan
Ir. Ningsanhaikaitsza
Ir. Ninginhe
Ir. Chaku
Ir. Burtun
Ir. Abalben
Ir. Ir. Mudyoo Ho
Ir. Ir. Kilaba (Kirin)
Ir. Ir. Sungari
Ir. Ir. Sungari
Ir. Ir. Sikulan
Ir. Ir. Liti
Ir. Ir. Ouss
Ir. Ir. Amur
Ir. Ir. Amur
Ir. Ir. Ouia (Ouin Ho)
Ir. Ir. Suli or Djirik
Ir. Ir. Kilimen
Ir. Ir. Urmi
Ir. Ir. Nor
Ir. Ir. Norui
Ir. Ir. Dorman
Ir. Ir. Kirkin
Ir. Ir. Kamilinka
Ir. Ir. Bogenka
Ir. Ir. Vonbabuzu
Ir. Ir. Kaertingeshan
Ir. Ir. Sierbaingeshan
Ir. Ir. Ilmingeshan
Ir. Ir. Butuhe
Ir. Ir. Paugeshan
Ir. Ir. Podut
Ir. Ir. Kulka
Ir. Ir. Kulkoma
Ir. Ir. Vankaton
Ir. Ir. Magnigeshan
Ir. Ir. Kelindaigeshan
Ir. Ir. Susu
Ir. Ir. Deikengeshan
Ir. Ir. Fungugeshan
Ir. Ir. Igesmingeshan
Ir. Ir. Dolanigeshan
Ir. Ir. Imaka
Ir. Ir. Ilmdanka
Ir. Ir. Fetupa
Ir. Ir. Syaguke
Ir. Ir. Guiza
Ir. Ir. Vadaya
Ir. Ir. Sil
Ir. Ir. Soandagesham
Ir. Ir. Adimaina
Ir. Ir. Kalafel
Ir. Ir. Vankaton
Ir. Ir. Baoshin
Ir. Ir. Suisuncheu
Ir. Ir. Shankuma
Ir. Ir. Lintsingeitsza
Ir. Ir. Shanayu
Ir. Ir. Ordonmukin
Ir. Ir. Shanmaitzy
Ir. Ir. Baoshuan
Ir. Ir. Kanssupuo
Ir. Ir. Salinho
Ir. Ir. Kunchilinza
Ir. Ir. Sinkalu
Ir. Ir. Linshupo
Ir. Ir. Mudutza
Ir. Ir. Turtaga
Ir. Ir. Kamenni
Ir. Ir. Ninguta

Troitskaya
Suau
Nonni
Da. (Cherinva)
R. Amur
Saraplisk
Mts
H. Dondon or (Solv)
Davunda
Sennikr
Litrolani
Mts
Vorokeiskoe
St. Kanarovka
KHABAROVSK
Pokporka
New Gavalsk
Aigasi
Nupge
Kerscakova
Zabpiova
Kneakevich
Por. Nevelskaya
Deragenkova
Tchernyaeva
Dubovskaya
Kisseleva
Ayskaya
Valitelskaya
St. Khor
F. Sunkuli
Kukeleva
Dormidontovka
Krassitsuy
Zadonikalevsku
Butugoskaya
Mita 80 Mt
Keluiken Mts
R. Hurn
Anban Mt
R. Kor
R. Botky
R. Kechuiken or Keruiken
Vasilkovi
St. Vereikova
Vinsemsku
Kebrovaya
Kebrutchika
Lovayska
Vadnaya
St. Longakova
Sipku Mt
St. Vasilevskaya
Stan. Pokrovskaya
R. Ussuri
Chernudinza
(Sipunuydinza)
Stan. Zunubina
(Botcharova)
R. Bikin
Fanza
Nij. Nikolskaya
Nij. Mikailovskaya
Lopatinskui Stanok
Stan. Kritoberejnbiustanok
Knyajevskaya
R. Tauizberi
C. Bellona
Ima. Kauza
Ima. Vaku
St. Muriavlef Amurskui
R. Vak
R. Iman
Stan. V. Nikolskaya
Stan. V. Mikailovskaya
St. Prokaska
Stan. Bisse
R. Samda Vak
Wiaku
Fr. Litkovskago
Ussouri
T. S. Ermenieva
F. Situka
No 3
Ispenka
Nijne Romanovskaya
F. Chupigoi
Bralkova
F. Famugi
F. Djimanga
Noto Kouza
M. Kobitin
F. Palbo
F. Chinguiza
T. S. Yakovleva
Le. Suanesa
F. Tudogoi
F. Tyu Kondogiii
T. S. Lazweva
C. Vujniu
Sundogi
Ternay B.
Plastun B.
Oprichnik B.
C. Soenam
Sea of Okhotsk


Vanda Mts
R. Urmi or Irmi
R. Amur
Pashkova
Storojevska
Bashurova
Maddevka
Ligan
Pompyevska
Kingan
Pushkupnovska
Snuznaya
Nuzino
Blagoslovennoe
Vayivova
Dobraya
Alikail Semenovsk
Kuketova
Novaya
Dejnera
Kiranskaya
Monskoe
Chichakin
Kaertingeshun
Kaertingeshun
Sterbaringeshun
Ilinageshan
Pongeshun
Podut
Kotongiru
Butuke
Kulkoma
Vankaton
Suan
Deikengeshun
Imdanka
Kaertingeshun
R. Nor
Omin
Goldaya
Gravidzuke
Azyrgusi
Vorobanza
R. Norn
Kamitirka
Kurkin
Kozlovskaya
Fanza
Orenvaryskoe
(Fanza)
St. Longakova
Sipku Mt
St. Vasilevskaya
Stsa. Pokrovskaya
Stsa. Zavubisna
(Botcharova)
R. Bikin
R. Doman
Fanza
Nij. Nikolskaya
Nij. Mikailovskaya
Lopatinskoi Stanok
Stsa. Kritoberejnbiustanok
Knyazevskaya
R. Sikulan
R. Tau
Kanda Mts
Vakori Ho
Stsa. Grafskaya
Krasnoyarskaya
Stsa. Uliaskaya
Imna. Kauza
Imna. Viku
St. Muravlef Amurskii
R. Vak
R. Iman
Feiter Ho
R. Murren or Mulen
F. Oko
Stsa. V. Nikolskaya
Stsa. V. Mikailovskaya
St. Prokaska
Stsa. Bisse
F. Chinzuin
Markova
Litkovskaya
Oussouri
R. Samrin Vak
Wiku
Limishanlau
L. Mal. Khanke
Kentei alin Mts
Turintuk
Jagdi
Matopo Alekseevskaya
L. Khanke
(Sin. Hai Ho)
Pogt. St. N° 3
Pogt. St. N° 4
Shimanovskaya
T. S. Yrmeneva
Ispenska
Nijne Romanovskaya
Shimkovka
F. Situka
F. Chupigor
Nobinskaya
Troitskaya
Lebeda Baranasha
Astrakanskaya
Novosibirsk
Kamen Rubalov
Gaivoron
Swingiri
Bratkova
F. Famagi
F. Djimanga
Noto Kouza
R. Kobitin
Spaskaya
Prokofievka
Dmitrovka
F. Palbo
F. Chingoiza
Chernigovka
T. S. Yakovleva
Ir. Suanesa
F. Tudogoi
F. Tyu Kondogir
T. S. Lazweva
Sundogi
Kuketeva
Dernidontovka
Krassitsuy
Zabaikalsku
Buringoskano
Kebrovaya
Vasilevska
Vasilevka
Vasilevka
Kebrovaya
St. Kebintchika
Llovayska
Vasilevka
Kukeleva
St. Khor
F. Sunkun
Kisseleva
Pokrovayateiuskaya
Dahovskaya
Tcheremeleva
Deragenkova
Pos. Nevelskaya
Kosakevich
Kersakova
Nuppe
Zabaikalova
Silginku
Etti
Kimkiatin
Kemu
Mirki
Stepanovka
Vosresenskaya
Vognesenskaya
Galovinuo
Petrovskaya
Litovnaya
V. Spasskaya
N. Spasskaya
New Cavalsk
Arigasi
Pokporka
St. Kasarovka
KHABAROVSK
Litrolani
Dzarunda
Senniki
Peter Pavlusk
Korsakovsk
Forokeiskoe
Kolb
R. Kilimen
R. Hira
R. Hurn
Mita &o Mts
Ketuiken
Sipku Mt
Kentei alin Mts


Mts
Suau
Da.(Churinva)
R. Dondon or (Soly)
Scraplisk
R. Imperatorskaja
Andreewa B.
C. Peschanui
48°
C. Crestwodswijensk
R. Botky
nbani Mt
R. Kor
R. Kachtikeli or Krubkan
ken Mts
C. Tmanui
C. Soenawa
Chamudinza
(Sipunnyduwa)
46°
R. Tauizberi
C. Belkina
Tarnay B.
Plastun B.
Oprichnik B.
44°
C. Vujniy


46°
44°
42°
Kol. Baranbulak
Kum Ganjursume
Kol. Ganstolyoiburuikuduk
Kol. Tsaganderbuga
Kol. Amonsiusunkuduk
Kol. Kojudulak
R. Shonoihyon
R. Dulingon
R. Luzigon
Kurukuteigon
R. Kreiingoli
Kol. Bayankailasun
Kol. Kreiingoli
Mt Holiogama
Kol. Arakiudu
R. Dzubur
R. Bulgiungol
Kum. Kobukure
R. Tsekeetsu
R. Shadury
Kum. Ganjursame
Kol. Baindalaikuduk
Kol. Arobuluk
Kol. Bilyutyui
Kol. Kodyunetologoi
Kol. Belekem
R. Iutyol
Kol. Nomyumsume
Kol. Ilanubusute
Il. Talyunkobu
Kol. Dzukakermuikkud
Kri. Bombotu
Kum. Boogtusume
Kol. Kabergukuduk
Yur. Tsebeleya
Kol. Butun
Kol. Gelgukukuduk
Kol. Arokuduk
Kol. Sholonkodura
R. Togastungol
Kuntsugan Nor
Artsagan Nor
Kol. Kulusutu
Ir. Negonusu
Kol. Sharabudurgana
Atgunaita
Kol. Dyurmu
R. Tsakilkulga
Tsikildak
Kol. Karatologoi
Kol. Kadainusu
Il. Djunda
Kol. Adyuk
Kol. Kuitun
R. Kuruderesu
R. Tsagyundo
Yur. Shargandeo
R. Dutu
R. Izirtu
R. Gorbuntulga
Kol. Ikitola
Kol. Gun Elyusutukuduk
Kol. Ulushunkuduk
Kol. Bumbatu
Kol. Medunkuduk
Kol. Kulusutu
Kol. Burgasatukuduk
Kol. Tamutukuduk
Il. Kelsu
Kasb. Djunaimanzuk
Kasb. Bulgai
Ir. Kurbulgasu
R. Tokyus
Yur. Bdishetu
Yur. Fangungoi
Kol. Kuitun
Bulen
Talyundyun
Dumunoro
Raz. Nankoto
Kol.
Kol. Kuitun
Kol. Kuhusutaibul
Ir. Djordjikobur
R. Chkegon
R. Igegue
Ir. Kulusutai
Kol. Surkutubulak
Kol. Tezibulak
Ir. Kuizenelezu
Kum. Tkuilsumu
Kol.
Kum. Bayan
Ir. Kabirgan
Ir. Inikit
R. Karaumi
R. Rolg
Kol. Dyushitukud
Ir. Karamuritu
Dzirim gol
Ir. Kulugui
Ir. Torinnur
Kum. Vangoinsume
Kol. Chulonkuduk
Ir. Putukirbir
Kol. Buyanbuluk
Ir. Kudjurty
Kum. Erts
Ir. Kuduluk
Tabinsume
Dyunsume
Kol. Kophelabulak
R. Shiligol
Gurvintuipesume
Raz. Tsugansodorga
Raz. Drobgorda
Maimun
Shjutinsume
Ghodn. Kum. Imperutritsu
Changeinsumi
Fostensume
Keshkentaide
Ik. Chingisobu
Ir. Baingagan
Kolegui
Kol. Shideiyu
Barin
Kum.
L. Taal
Kum. Durkunot
Shunbontsze
Kol. Kankud
Tsinpuin
Inizu
Kurkurumuka
Degun Lakende
Suyatur
Dabopu
Yukaide
Kurunurahzu
Nanderks
Laste
Sonir
Mis st. Maoshur
Shangunshun
Lanigoi
Vogotu
Dyujun
Shunbotu
Kol. Karatsyuintsza
Syaohoter
Belgiintsza
Deumkure
Buinkuren
Ssotskuren
Ilatinzye
Kurgoutszyan
Naudo
Tsurkuaitszyan
Kuntodeinou
Kum. Shadote
Yantubeu
Kuatugui
Okrot. Stav. Imp. Kanzi
Raz. Tsagankalgasu
Tsagankurmu
Kolonnor
Siejenfung
Khuszejatsa
Yangshowan
Tusikomen
Awangjaying
Ajangporu
Jaying
Yangjadien
Moutaye
Seuyuheu
Naitiko
Pohako
Sinkaider
Unuibouu
Enkaider
Yunshani
Kol. Kankud
Kol. Kulusutu
Kol. Tamutukuduk
Kol. Medunkuduk
Kol. Bumbatu
Kol. Ulushunkuduk
Kol. Gun Elyusutukuduk
Kol. Ikitola
Kum.
Ir. Negonusu
Kol. Sharabudurgana
Kol. Dyurmu
Tsikildak
Kol. Karatologoi
Kol. Kadainusu
Il. Djunda
Kol. Adyuk
Kol. Kuitun
Il. Kuruderesu
Il. Tsagyundo
Yur. Shargandeo
Il. Dutu
Il. Izirtu
Il. Gorbuntulga
Kol.
Kol. Kuitun
Bulen
Talyundyun
Dumunoro
Raz. Nankoto
Kol.
Kol. Kuhusutaibul
Ir. Djordjikobur
R. Chkegon
R. Igegue
Ir. Kulusutai
Kol. Surkutubulak
Kol. Tezibulak
Ir. Kuizenelezu
Kum. Tkuilsumu
Kol.
Kum. Bayan
Ir. Kabirgan
Ir. Inikit
R. Karaumi
R. Rolg
Kol. Dyushitukud
Ir. Karamuritu
Dzirim gol
Ir. Kulugui
Ir. Torinnur
Kum. Vangoinsume
Kol. Chulonkuduk
Ir. Putukirbir
Kol. Buyanbuluk
Ir. Kudjurty
Kum. Erts
Ir. Kuduluk
Tabinsume
Dyunsume
Kol. Kophelabulak
R. Shiligol
Gurvintuipesume
Raz. Tsugansodorga
Raz. Drobgorda
Maimun
Shjutinsume
Ghodn. Kum. Imperutritsu
Changeinsumi
Fostensume
Keshkentaide
Ik. Chingisobu
Ir. Baingagan
Kolegui
Kol. Shideiyu
Barin
Kum.
L. Taal
Kum. Durkunot
Shunbontsze
Kol. Kankud
Tsinpuin
Inizu
Kurkurumuka
Degun Lakende
Suyatur
Dabopu
Yukaide
Kurunurahzu
Nanderks
Laste
Sonir
Mis st. Maoshur
Shangunshun
Lanigoi
Vogotu
Dyujun
Shunbotu
Kol. Karatsyuintsza
Syaohoter
Belgiintsza
Deumkure
Buinkuren
Ssotskuren
Ilatinzye
Kurgoutszyan
Naudo
Tsurkuaitszyan
Kuntodeinou
Kum. Shadote
Yantubeu
Kuatugui
Okrot. Stav. Imp. Kanzi
Raz. Tsagankalgasu
Tsagankurmu
Kolonnor
Siejenfung
Khuszejatsa
Yangshowan
Tusikomen
Awangjaying
Ajangporu
Jaying
Yangjadien
Moutaye
Seuyuheu
Naitiko
Pohako
Sinkaider
Unuibouu
Enkaider
Yunshani
R. Zingjing
R. Shipuh
Kol. Karatologoi
Kol. Kadainusu
Il. Djunda
Kol. Adyuk
Kol. Kuitun
Il. Kuruderesu
Il. Tsagyundo
Yur. Shargandeo
Il. Dutu
Il. Izirtu
Il. Gorbuntulga
Kol.
Kol. Kuitun
Bulen
Talyundyun
Dumunoro
Raz. Nankoto
Kol.
Kol. Kuhusutaibul
Ir. Djordjikobur
R. Chkegon
R. Igegue
Ir. Kulusutai
Kol. Surkutubulak
Kol. Tezibulak
Ir. Kuizenelezu
Kum. Tkuilsumu
Kol.
Kum. Bayan
Ir. Kabirgan
Ir. Inikit
R. Karaumi
R. Rolg
Kol. Dyushitukud
Ir. Karamuritu
Dzirim gol
Ir. Kulugui
Ir. Torinnur
Kum. Vangoinsume
Kol. Chulonkuduk
Ir. Putukirbir
Kol. Buyanbuluk
Ir. Kudjurty
Kum. Erts
Ir. Kuduluk
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Dyunsume
Kol. Kophelabulak
R. Shiligol
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Raz. Tsugansodorga
Raz. Drobgorda
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Ik. Chingisobu
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Kol. Shideiyu
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Kum.
L. Taal
Kum. Durkunot
Shunbontsze
Kol. Kankud
Tsinpuin
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Kurkurumuka
Degun Lakende
Suyatur
Dabopu
Yukaide
Kurunurahzu
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Mis st. Maoshur
Shangunshun
Lanigoi
Vogotu
Dyujun
Shunbotu
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Syaohoter
Belgiintsza
Deumkure
Buinkuren
Ssotskuren
Ilatinzye
Kurgoutszyan
Naudo
Tsurkuaitszyan
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Kum. Shadote
Yantubeu
Kuatugui
Okrot. Stav. Imp. Kanzi
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Tsagankurmu
Kolonnor
Siejenfung
Khuszejatsa
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Tusikomen
Awangjaying
Ajangporu
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Moutaye
Seuyuheu
Naitiko
Pohako
Sinkaider
Unuibouu
Enkaider
Yunshani
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R. Shipuh
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Kol. Adyuk
Kol. Kuitun
Il. Kuruderesu
Il. Tsagyundo
Yur. Shargandeo
Il. Dutu
Il. Izirtu
Il. Gorbuntulga
Kol.
Kol. Kuitun
Bulen
Talyundyun
Dumunoro
Raz. Nankoto
Kol.
Kol. Kuhusutaibul
Ir. Djordjikobur
R. Chkegon
R. Igegue
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Kol. Surkutubulak
Kol. Tezibulak
Ir. Kuizenelezu
Kum. Tkuilsumu
Kol.
Kum. Bayan
Ir. Kabirgan
Ir. Inikit
R. Karaumi
R. Rolg
Kol. Dyushitukud
Ir. Karamuritu
Dzirim gol
Ir. Kulugui
Ir. Torinnur
Kum. Vangoinsume
Kol. Chulonkuduk
Ir. Putukirbir
Kol. Buyanbuluk
Ir. Kudjurty
Kum. Erts
Ir. Kuduluk
Tabinsume
Dyunsume
Kol. Kophelabulak
R. Shiligol
Gurvintuipesume
Raz. Tsugansodorga
Raz. Drobgorda
Maimun
Shjutinsume
Ghodn. Kum. Imperutritsu
Changeinsumi
Fostensume
Keshkentaide
Ik. Chingisobu
Ir. Baingagan
Kolegui
Kol. Shideiyu
Barin
Kum.
L. Taal
Kum. Durkunot
Shunbontsze
Kol. Kankud
Tsinpuin
Inizu
Kurkurumuka
Degun Lakende
Suyatur
Dabopu
Yukaide
Kurunurahzu
Nanderks
Laste
Sonir
Mis st. Maoshur
Shangunshun
Lanigoi
Vogotu
Dyujun
Shunbotu
Kol. Karatsyuintsza
Syaohoter
Belgiintsza
Deumkure
Buinkuren
Ssotskuren
Ilatinzye
Kurgoutszyan
Naudo
Tsurkuaitszyan
Kuntodeinou
Kum. Shadote
Yantubeu
Kuatugui
Okrot. Stav. Imp. Kanzi
Raz. Tsagankalgasu
Tsagankurmu
Kolonnor
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Khuszejatsa
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Ajangporu
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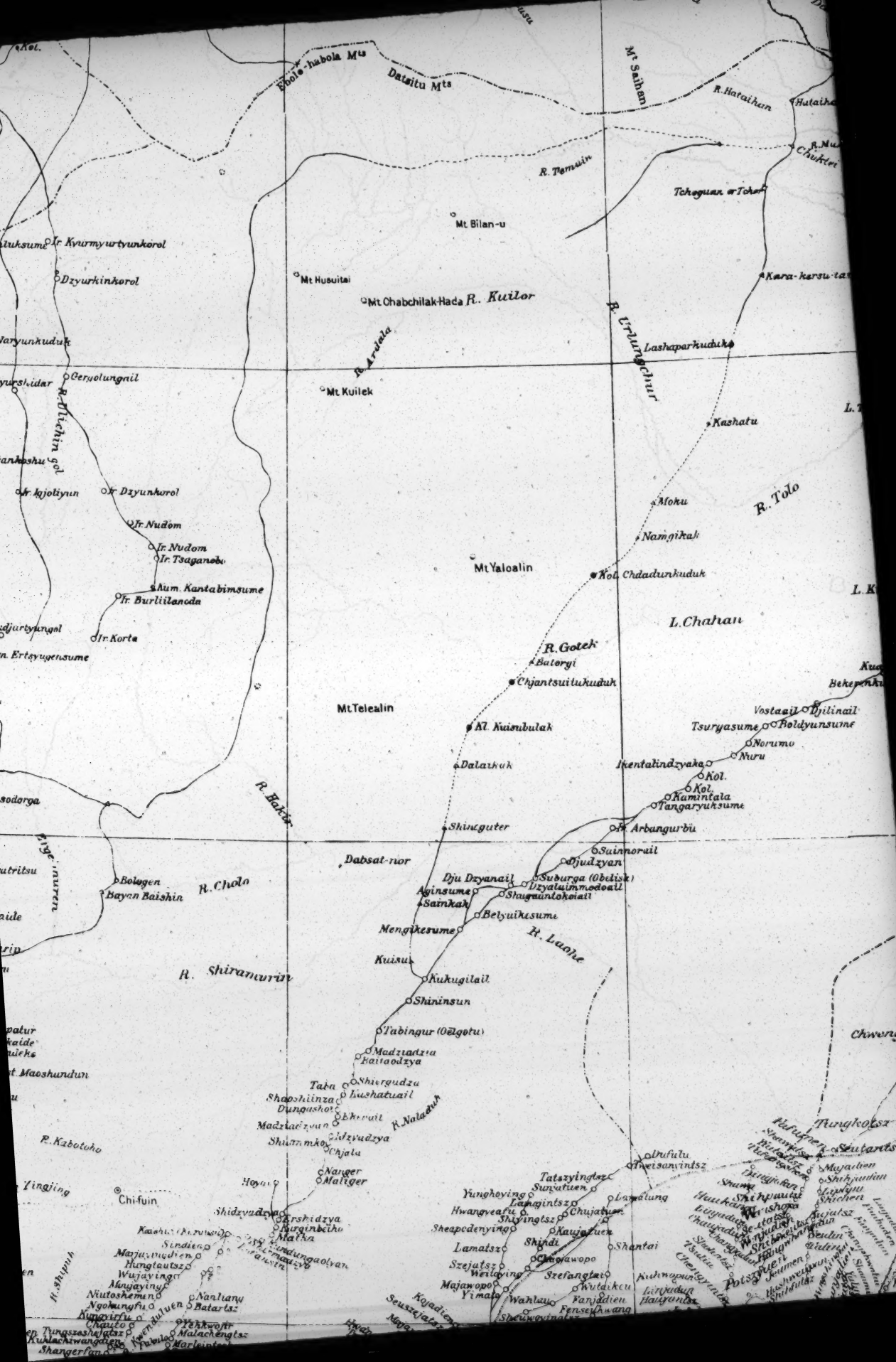
Moutaye
Seuyuheu
Naitiko
Pohako
Sinkaider
Unuibouu
Enkaider
Yunshani
R. Zingjing
R. Shipuh


Ebola-habola Mts
Datsitu Mts
Mt Saihan
R. Hataihan
R. Tamuin
Mt. Bilan-u
Mt Husuitai
Mt Chabchilak-Hada
R. Kuilor
R. Urlung Chur
Lashaparkuduk
Mt Kuilek
Kashatu
R. Tolo
Moku
Namgikak
Mt Yaloalin
Kol. Chdadunkuduk
L. Chahan
R. Goteh
Batorgi
Chjantsuilukuduk
Mt Telealin
Kl. Kuisubulak
Tsuryasume
Boldyunsume
Nomumo
Nuru
Dalaikuk
Kol.
Kol.
Kamintala
Tangaryuksume
R. Baitsz
Shinguter
Arbangurbu
Sainnorail
Djuldzyan
Dabsat-nor
Dju Dzyanail
Suburga (Obelisk)
Dzyaluimmodoail
Shaguuntokoail
Aginsume
Sainkak
Belyuiksume
Mengikesume
R. Luohe
R. Chola
Bologen
Bayan Baishin
R. Shiramurin
Kuisu
Kukugilail
Shininsun
Tabingur (Olgotu)
Madziadzya
Baitaodzya
Shiergudzu
Tabu
Shaoshiinza
Dungushor
Madziadzyan
Shiaanmko
Chjala
Nanger
Maitger
R. Nalagah
R. Kabotoho
Chi-fuin
Hoyan
Shidzyadzya
Arshidzya
Kurginbcho
Matha
Sindien
Majayingdien
Hungtautsz
Wujaying
Mingjaying
Niutoshemin
Ngolungfu
Nanliang
Batartsz
Tsaidzyan
Tsakuo
Yenkwofu
Malachengtsz
Tabulo
Marlentsz
R. Shipuh
Tungsze-shajtsz
Kuilachiwangtsz
Shangerlung
Kuisu
Tatszyingtsz
Sunyatuen
Yungheying
Hwangweatu
Shiyingtsz
Sheapodenying
Lamatsz
Szejatsz
Majawopo
Yimatu
Wanlau
Fensejhwang
Shenwoyingtsz
Lamalung
Chujatuen
Kaujatuen
Shindi
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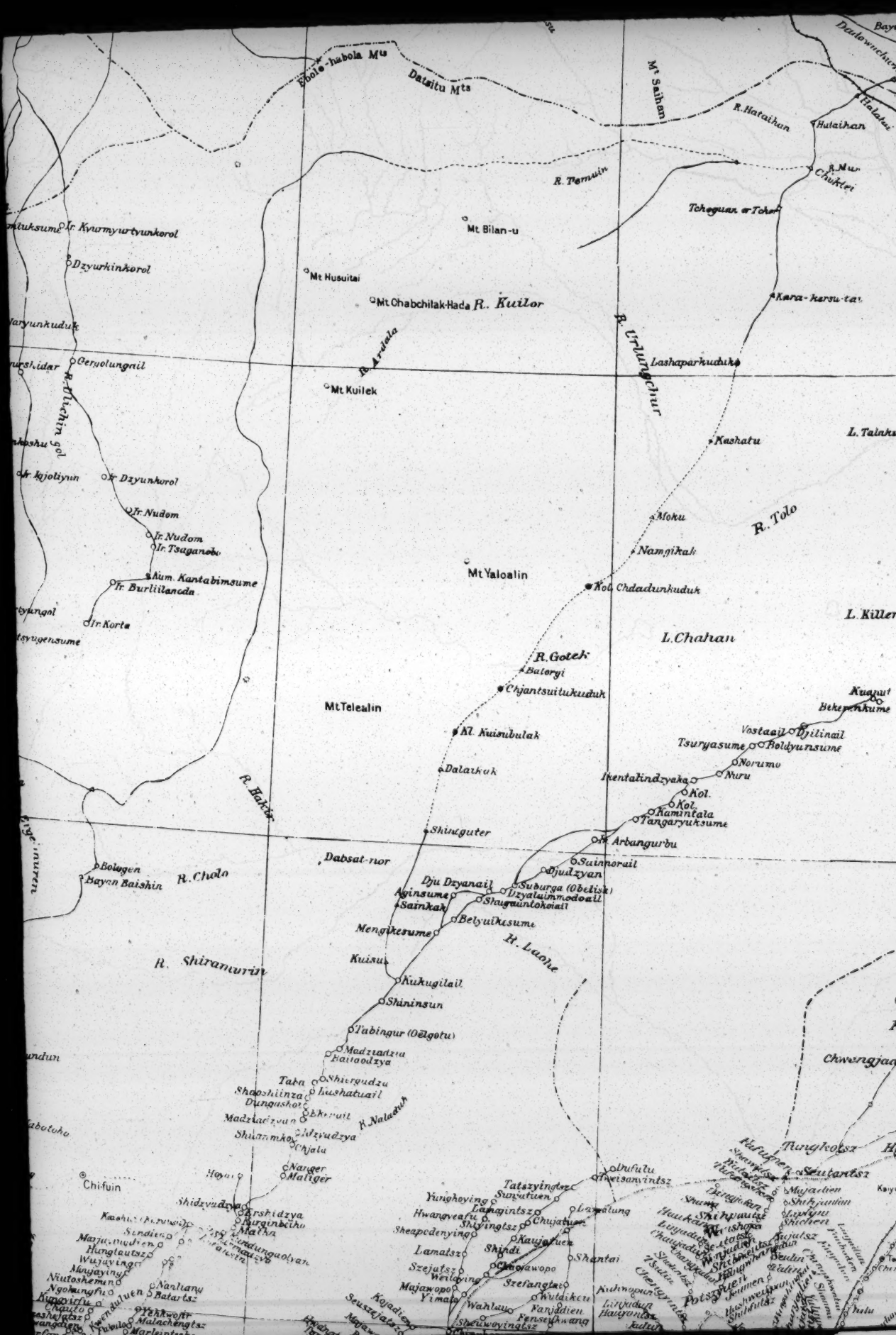
Szefangtai
Wutaikou
Fanjadien
Hungkoltsz
Shichuan
Shichen
Chwen
Mt. Maoshundun


Ebole-hubola Mts
Datsitu Mts
Mt Saihan
R. Hataihan
Hutaihan
R. Mur
Chuktei
R. Tomuin
Tcheguan or Tchoi
Mt. Bilan-u
Mt Husuitai
Mt Chabchilak-Hada
R. Kuilor
Kara-kersu-tai
R. Arulala
R. Urungchur
Lashaparkuduk
Mt Kuilek
Kashatu
L. Talaki
R. Tolo
Moku
Namgikak
Mt Yaloalin
Kol. Chdadunkuduk
L. Killer
L. Chahan
R. Goteh
Batergi
Chjantsuitukuduk
Kuanut
Bekepenkume
Mt Telealin
Kl. Kuisubulak
Vostaail
Djilinail
Tsuryasume
Holdyunsume
Dalaikuk
Norumo
Nuru
Ikentalindzyaka
Kol.
Kol.
Kaminkala
Tangaryuksume
Shinguter
Ar. Arbangurbu
Dabsat-nor
Suinnorail
Djudzyan
Bolugen
Bayan Baishin
R. Cholo
Dju Dzyanail
Aginsume
Suburga (Obelisk)
Dzyaluimmodoail
Shaguantokoiail
Sainkak
Belyuikusume
Mengikerume
R. Luohe
R. Shiramurin
Kuisu
Kukugilail
Shininsun
Tabingur (Obelgotu)
Madziadzya
Haitaodzya
Shirgudzu
Kushatuail
Tabu
Shaoshiinza
Dungushorr
Madziadzyan
Shidzyudzya
Shilazimko
Chjalu
R. Naladuh
Nanger
Maliger
Chi-fuin
Shidzyudzya
Matku
Tatszyingtsz
Yunghoying
Hwangveafu
Sheapodenying
Lamatsz
Szejatsz
Majawopo
Yimalo
Wahlau
Shuiwoyingtsz
Fensen
Shantai
Shindi
Chuchawopo
Szefangtsai
Wuldikou
Fanjadien
Kojadien
Seuszkjatsz
Huchuanpien
Lichjudun
Haigoutsz
Jaotun
Hungkotsz
Shuiyuan
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Chengkou
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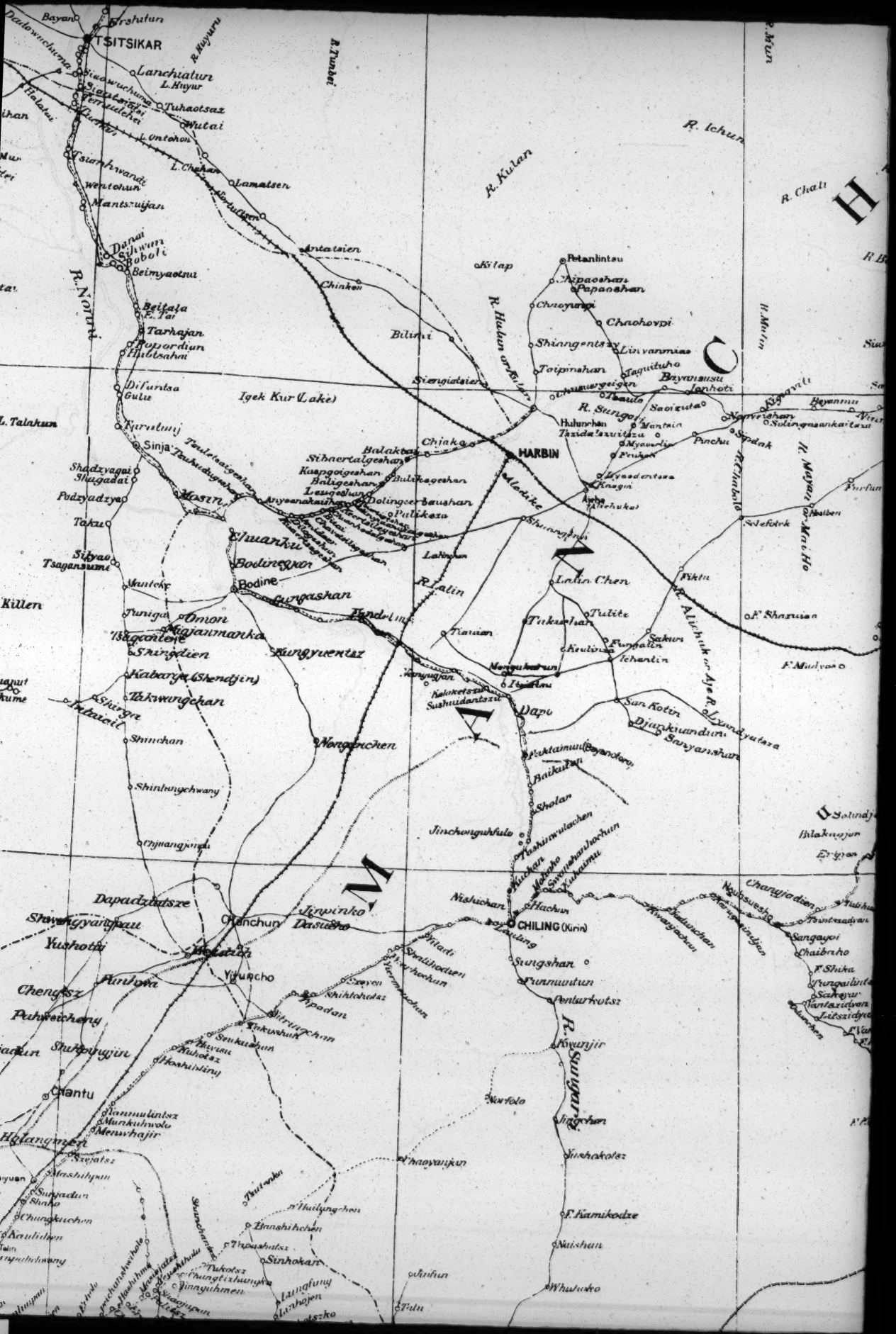
Lungkou
Yang


TSITSIKAR
HARBIN
CHILING (Kirin)
Bayan
Ershutun
Lanchiatun
Tuhaotsaz
Mutai
Lamatsen
Antatsien
Chinken
Beimyaotsu
Beifata
Tarhajan
Hulbsahn
Difuntsa
Gulu
Igek Kur (Lake)
Sinja
Shadzyagai
Shugadai
Podzyadzya
Taku
Sibyao
Tsagansumi
Killen
Tuniga
Omon
Kabarga (Shendjin)
Takwangchan
Shmchan
Shinlungchwang
Dapadzhatsze
Shwangyantsau
Yushotu
Chengtsz
Puhweicheng
Chantu
Halangmen
Kiuanku
Bodingsan
Bodine
Lungshan
Kungyuentsz
Hongorchen
Sinpinko
Dasuho
Vikurcho
Shihtohotsz
Sipadan
Tsitsihar
Nishchan
Hachun
Shwangjin
Sungshan
Yuanmuntun
Yentarhotsz
Kiyunjir
Jirgchan
Jinchakotsz
Nurfolo
Nuishan
Whutusko
F. Kamikodze
Chaohovpi
Shinngentsz
Taipinshan
Jaguituho
Lishanmiao
Petanlintsu
Papaochan
Chaoyangpi
Bilimi
Kitap
Siengiatsien
Chinko
Balaktsai
Sibsertalgeshan
Kuapgoigeshan
Baligeshan
Lesugeshan
Dolingeerbaushan
Pulikeza
Tsulutsaigeshan
Tsukudugeshan
Kuanchengtsz
Lalinchen
Lalin
Tulite
Tukuchan
Tsuian
Kuliwan
Ichantin
Fiktu
Sakuri
Fumalin
Mongolchorun
Kalaketsza
Sushuidantsza
Dapo
Sun Kotin
Djuzkuandjuri
Sanyanshan
Baikuchan
Sholan
Jinchongukhulo
Tashkiwulachen
Hutchen
Hakoho
Sandaharhochun
Kudaimu
Shalitodzen
Shihtohotsz
Shitsuchan
Tsitsihar
Yiluncho
Kuntjwa
Shuhpingjin
Hanmulintsz
Munkuhwolo
Menwhajir
Shinshuyan
Sunjadun
Shuho
Chungkuchen
Kaulidsen
Tsitsihar
Nenjiang
Yuanjiadien
Nanhsueshe
Sangayoi
Chaibacho
F. Shika
Sakayur
Lalin
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Fiktu
Sakuri
Fumalin
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Tsuian
Mongolchorun
Kalaketsza
Sushuidantsza
Dapo
Sun Kotin
Djuzkuandjuri
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Baikuchan
Sholan
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Tashkiwulachen
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Hakoho
Sandaharhochun
Kudaimu
Nishchan
Hachun
Shwangjin
Sungshan
Yuanmuntun
Yentarhotsz
Kiyunjir
Jirgchan
Jinchakotsz
Nurfolo
Nuishan
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Chaohovpi
Shinngentsz
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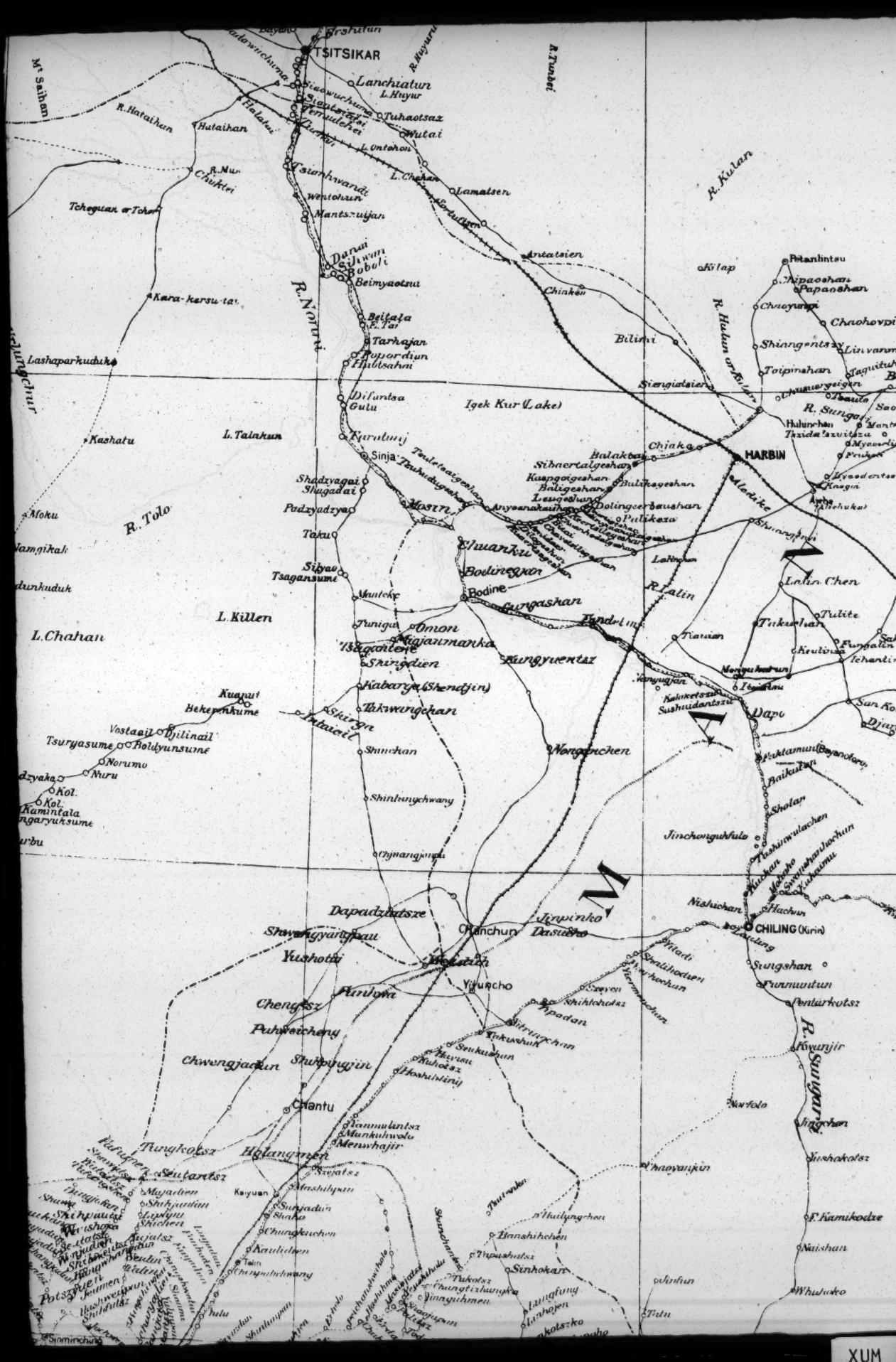
Yuanmuntun
Yentarhotsz
Kiyunjir
Jirgchan
Jinchakotsz
Nurfolo
Nuishan
Whutusko
F. Kamikodze
R. Nonni
R. Tsitsihar
R. Huyuru
R. Kulan
R. Hulun or Kulan
R. Ichun
R. Chali
R. Mun
R. Mutin
R. Nenjiang
R. Sungari
R. Sungari
R. Aluchuk or Aye R.
R. Lyundyutsza


TSITSIKAR
HARBIN
CHILING (Kirin)
Mt Saihan
R. Nonni
R. Tolo
R. Kulan
R. Hulun or Buir
R. Sungari
R. Sungari
L. Chahan
L. Killen
L. Talnkun
Igek Kur (Lake)
Lanchiatun
Tuhaotsaz
Hutai
Lamatsen
Antatsien
Chinken
Bilimi
Beimyaotsui
Tarhajan
Lashaparkuduk
Kara-kersu-tai
Tchoguan or Tchor
Kashatu
Moku
Sinja
Shadzyagai
Padzyadzya
Taku
Sibya
Tsagansume
Bodine
Gungashan
Omon
Shirigdien
Kabarga (Shenetjin)
Takwangchan
Kuanut
Bekepenkume
Vostaail
Tsuryasume
Noromo
Nuru
Kol.
Kamintala
Shinchan
Shinhungchwang
Chjnangjindi
Wangenchen
Kungyuentsz
Dapo
Baikuian
Sholan
Jinchenguhulo
Nishichan
Hachan
Yuhaimu
Dapadzhatsze
Shawangyaruhpau
Yushotai
Kanchun
Jinpinko
Dasuiho
Yiyuncho
Changtsz
Panhwa
Pahweicheng
Chwengjaokun
Shuhpingjin
Chantu
Tungkotsz
Holangnien
Kaiyuan
Shuangchengpu
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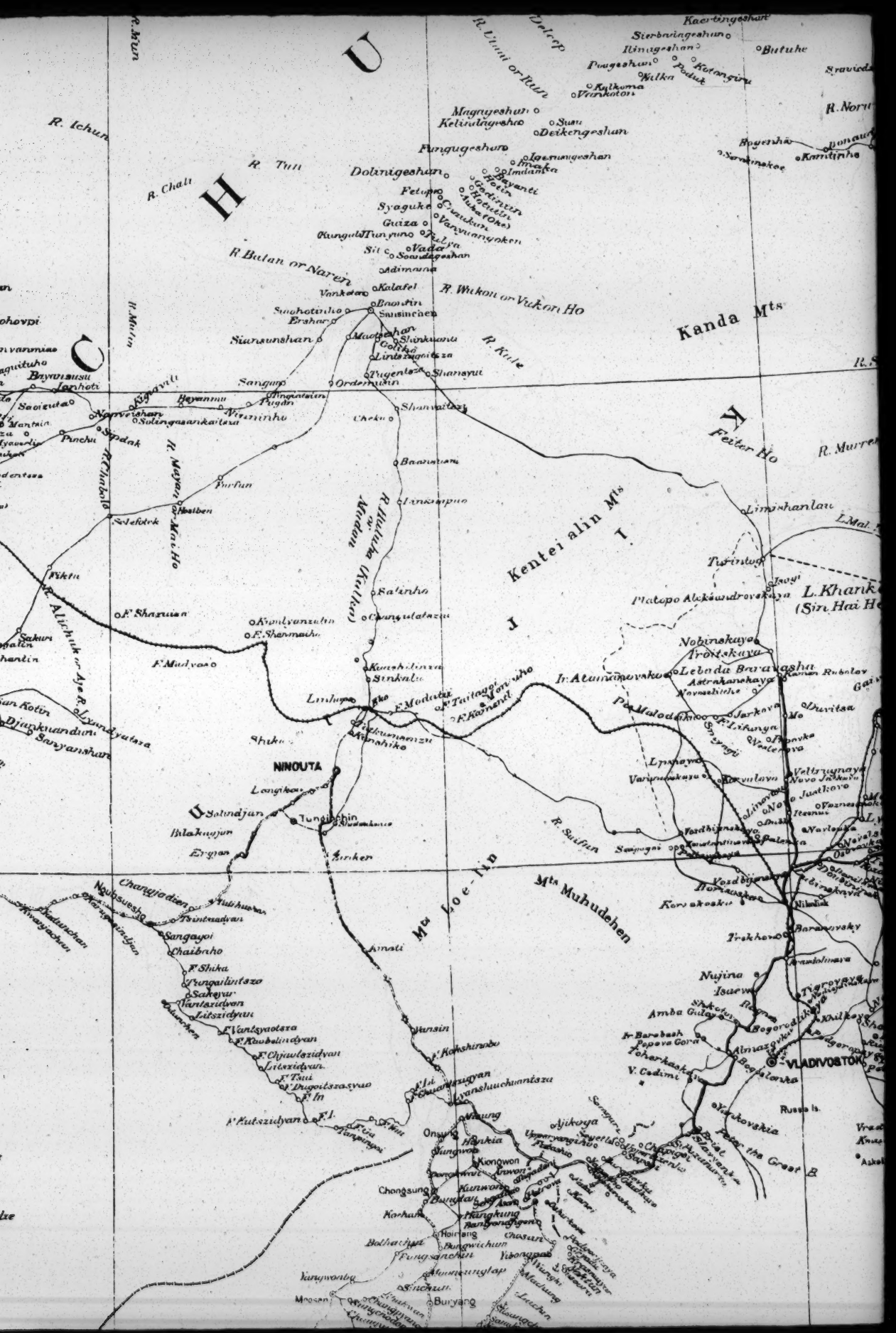
Nonni
Tolo
Sungari
Kiangjir
Nunkiang
Nunkiang
Nunkiang


R. Ichun
R. Chali
R. Tuli
R. Butan or Naren
R. Wikon or Vukori Ho
R. Kuile
R. Meyen
R. Chanbolo
R. Alichuk or Aye R.
R. Sutfun
Kanda Mts
Kentei alin Mts
Mu Loe-Ind Mts Muhudshen
Fetter Ho
R. Murren
Kaertingeshan
Sierbaringeshan
Ilinageshan
Butuhe
Pugeshan
Kulka
Podut
Katangiru
Kulkoma
Virkoton
Magugeshan
Keliulingeshan
Suan
Deikengeshan
Fungugeshan
Dolinigeshan
Igesungeshan
Imaka
Imdanka
Fetupa
Syaguke
Guiza
Sil
Vadar
Adimaina
Vankdara
Kalafel
Baoxitin
Saxinchen
Ershan
Siaosunshan
Machenshan
Shinkuanti
Linshuguitsza
Tugentse
Shanayui
Sangmp
Ordermusin
Shanmaitzy
Baoxitsani
Linxiapuo
Purfun
Selefidek
Fikta
F. Shazuian
Kuanlyanzuhn
F. Shanmaihe
F. Madvas
Sakuri
Djunkuandun
Savyanshan
Linduya
Kalinho
Changulatazu
Kuzhilinza
Sinkalu
F. Modutai
F. Kanenti
Tailagoyanzuho
Shika
Minshike
NINGUTA
Langkan
Salindjan
Tungkshin
Bilakuujan
Erguan
Sinker
Changjiadien
Nanhsuesho
Sangayoi
Chaibaho
F. Shika
F. Yangailintsza
F. Sakeyui
F. Litszidyui
F. Vantsyaotsza
F. Kaubelindyan
F. Chjawlezidyan
F. Tsui
F. Dugoitszaszyuo
F. In
F. Kutszidyan
F. Ji
F. Tsia
F. Yuei
Amsti
Yansin
F. Kokshinsho
F. Chuanyingyan
Yanshuchuantsza
Onsung
Hunkia
Kiongwon
Chongsung
Kunwon
Korhan
Hungkung
Hoirang
Bathachza
Chasuri
Vibongpao
Vangwonbo
Sinchun
Buryang
Mosan
Ajikoya
Upper Yangchiho
Yuetsa
Pokachio
Nujina
Isuevka
Amba Gulf
Sikotun
Rugna
Bogorodskoe
Milkovo
Ir. Barabash
Popova Gora
Almazovka
Poherkaska
V. Cedimi
VLADIVOSTOK
Russo Is.
Novkovskia
Peter the Great B.
Barabanovsky
Trekhrech
Nikolsk
Korsakovskie
Vozdvijenka
Horvatovka
Ir. Atamanovskoe
Lebeda Buratashu
Astrakanskaya
Platopo Alekseandrovskaya
Nobinskaya
Trontskaya
Jarkova
F. Likunga
Lyuneyo
Varfunskaya
Sungngi
Vasilevka
Ponovka
Duvitsa
Velikaya
Novo Inkaro
Justinovo
Kamen Rubalov
Limoshanlan
Turinsky
Jagi
L. Khanka (Sin. Hai Ho)
L. Mal.
R. Murren
R. Suifun
R. Kulba (Kulen)
R. Meyen
R. Chanbolo
R. Alichuk or Aye R.
R. Sutfun
R. Norvi
R. Ichun
R. Chali
R. Tuli
R. Butan or Naren
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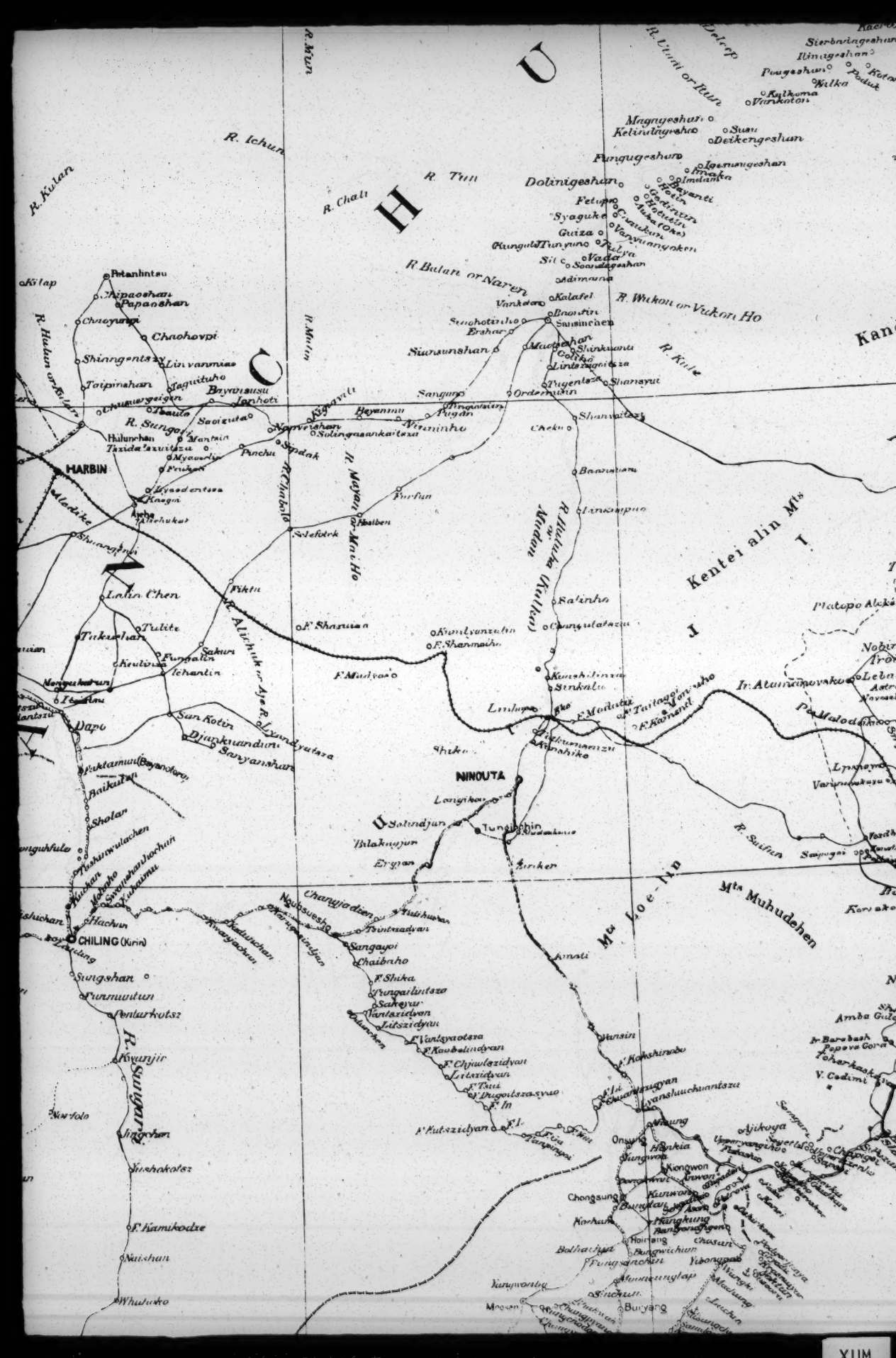
Kentei alin Mts
Mu Loe-Ind Mts Muhudshen
Fetter Ho
R. Murren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R. Tun
R. Butan or Naren
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R. Mutan
R. Wukon or Vukon Ho
R. Kuile
R. Sungari
R. Mutan
R. Alichuk or Aje
R. Lyundyutsza
R. Nonni
R. Hailar (Kailar)
R. Suifun
Kentei alin Mts
Mts Muhudehen
Mu Yoe-lxn
Kan
Dolinigeshan
Fungugeshuro
Magnyeshuro
Keliningyesho
Suau
Deikengeshan
Sierbningeshuro
Ilinigeshan
Pungeshuro
Kilka
Kilkoma
Vankuton
Padui
Petanhintsu
Papanshan
Chaohovpi
Shiangentsza
Taipinshan
Bayanssu
Saoizuta
Hulunchan
Myaoerhsa
Kaogi
Lalin Chen
Tukelan
Tulite
Sakuri
Ichantin
Dapo
Sun Kotin
Baikuhan
Sholan
Kuchan
Hachun
Swanshanhachun
Kuhuimu
Shuangshan
Sangayoi
Chaibaho
Fanjiadien
Nanhsuesh
Hwangjiachun
Kuanjir
Shichakotsz
Whuluko
Nantolo
F. Kamikodze
Nuishan
Yuanshuchuantsza
Hankia
Kiongwon
Chongsung
Kunwon
Kangkung
Chusun
Bolhachun
Fungwichun
Fungyanchun
Yangwonto
Buryang
Sinchun
Ajikoya
Amba Gulu
Pepova Gora
Shoshkoi
Lalinha
Nunkiang
Kuanchengtsza
Changchuntsza
Kaishinsho
Tsitsihar
Mergen
Hailar
Manchuli
Pokotu
Platopo Alekse
Lebedevka
Malodinnoe
Varvarovka
Ivanovka
Ivanovsko
Tsitsigi
Kaimandi
Modutai
Linhuye
Shiku
Shikuchin
Kumshilinza
Sinkalu
Kumulyanzutin
Changulatszu
Shanmaizi
Shanyai
Ordermuin
Sangun
Shanyuanshan
Erahar
Sinchotinho
Sansinchen
Kalafei
Vankeo
Adimana
Soaringeshan
Vadar
Kungul
Tunyuno
Guiza
Syaguke
Fetupo
Dolinigeshan
Imaka
Imdanka
Bayanti
Petin
Hatintin
Aubatoko
Vanyuanyanyokon
Sit c
Kilap
Kilka
Vankuton
Padui
Kan
Platopo Alekse
Nobinskoe
Lebedevka
Malodinnoe
Varvarovka
Ivanovka
Ivanovsko
Tsitsigi
Kaimandi
Modutai
Linhuye
Shiku
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Kumshilinza
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Changulatszu
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Adimana
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Guiza
Syaguke
Fetupo
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Imdanka
Bayanti
Petin
Hatintin
Aubatoko
Vanyuanyanyokon
Sit c
Kilap
Petanhintsu
Papanshan
Chaohovpi
Shiangentsza
Linvanmiao
Taipinshan
Taguituho
Bayanssu
Saoizuta
Hulunchan
Myaoerhsa
Kaogi
Lalin Chen
Tukelan
Tulite
Sakuri
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Dapo
Sun Kotin
Baikuhan
Sholan
Kuchan
Hachun
Swanshanhachun
Kuhuimu
Shuangshan
Sangayoi
Chaibaho
Fanjiadien
Nanhsuesh
Hwangjiachun
Kuanjir
Shichakotsz
Whuluko
Nantolo
F. Kamikodze
Nuishan
Yuanshuchuantsza
Hankia
Kiongwon
Chongsung
Kunwon
Kangkung
Chusun
Bolhachun
Fungwichun
Fungyanchun
Yangwonto
Buryang
Sinchun
Ajikoya
Amba Gulu
Pepova Gora
Shoshkoi
Lalinha
Nunkiang
Kuanchengtsza
Changchuntsza
Kaishinsho
Tsitsihar
Mergen
Hailar
Manchuli
Pokotu
Platopo Alekse
Lebedevka
Malodinnoe
Varvarovka
Ivanovka
Ivanovsko
Tsitsigi
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Linhuye
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Changulatszu
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Shanyuanshan
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Kalafei
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Soaringeshan
Vadar
Kungul
Tunyuno
Guiza
Syaguke
Fetupo
Dolinigeshan
Imaka
Imdanka
Bayanti
Petin
Hatintin
Aubatoko
Vanyuanyanyokon
Sit c

R. Nor
Butuhe
Gelduga
St. Lovayska
St. Longakova
R. Noru
Vonbabnza
Kozlovskaya Fatiza
Sipku Mts
Bogersha
Kamilinka
Orenvaryskino (Fanza)
St. Vasilevskaya
Stan. Pokrovskaya
Chamudinza (Sipunnaydinza)
R. Domanovoi
Stan. Zurubina (Notcharova)
R. Bikin
R. Doman
Fanza
Nij. Nikolskaya
Nij. Mikailovskaya
Lopatinskoi Stanok
Kanda Mts
Stan. Kritoberejnbiustanok
R. Sikulan
Knyazevskaya
R. Tardziberi
Stan. Gratskaya
Ima. Kauza
Ima. Vuku
Krashoyarskaya
St. Muriavlef Amurskii
Stan. Llanskaya
R. Vak
R. Iman
Feider Ho
R. Murren or Mulen
F. Okoo
Stan. V. Nikolskaya
Stan. V. Mikailovskaya
St. Prokaska
F. Chinzuin
Markova
Stan. Bisse
Pogt. St. N°2
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Limanhanlan
L. Mal. Khanka
R. Litkovskaga
Oussouri
T. S. Tirmeneva
Turintun
Pogt. St. N°3
F. Situka
Jagyi
Alekseyevskaya
L. Khanka (Sin Hai Ho)
Langmaya
Ispenska
Nijne Romanovskaya
Pogt. St. N°4
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F. Chupigor
Nobinskaya
Troitskaya
Braliova
F. Famugi
Lebada Baratashu
Astrakhanskaya
Suingina
F. Djiniuga
Gaivoron
Noto Kouza
Kobrin
Jarkova
Spaskaya
Prokofevka
Dmitrovka
F. Palbo
F. Chinguiza
Chernigovka
T. S. Yakovleva
Ir. Suanesa
F. Tudogai
F. Tyu Kondogiu
T. S. Lazweva
C. Yujniu
Lyalagi
Suindogi
Zeboka
Gordievka
F. Yraodagi
F. Tin Bruga
Wladimir B.
C. Sovor
F. Yu Sandogi
G. Chamba Dayuzi
F. Tarigni
G. Labulazu
Olga B.
Per. Petrovskii
Barabashevsky
Novokatunigi
C. Nizmennui
F. Khandeya Didi
Ewstophis B.
Nujina
Velikoridskaya
F. Tukoveii
G. Zelenaya
Taiho
Sergeevka
F. Shanduza
Naikinskaya
Shokotova
Romanovka
Prolovka
G. Ostrun
G. Tolun
Walentina B.
Almazovka
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Petrovka
Novikaya
Peratino
Opasnui Is.
Russo Is.
Vladimirovka
Alekseyevka
Golubovka
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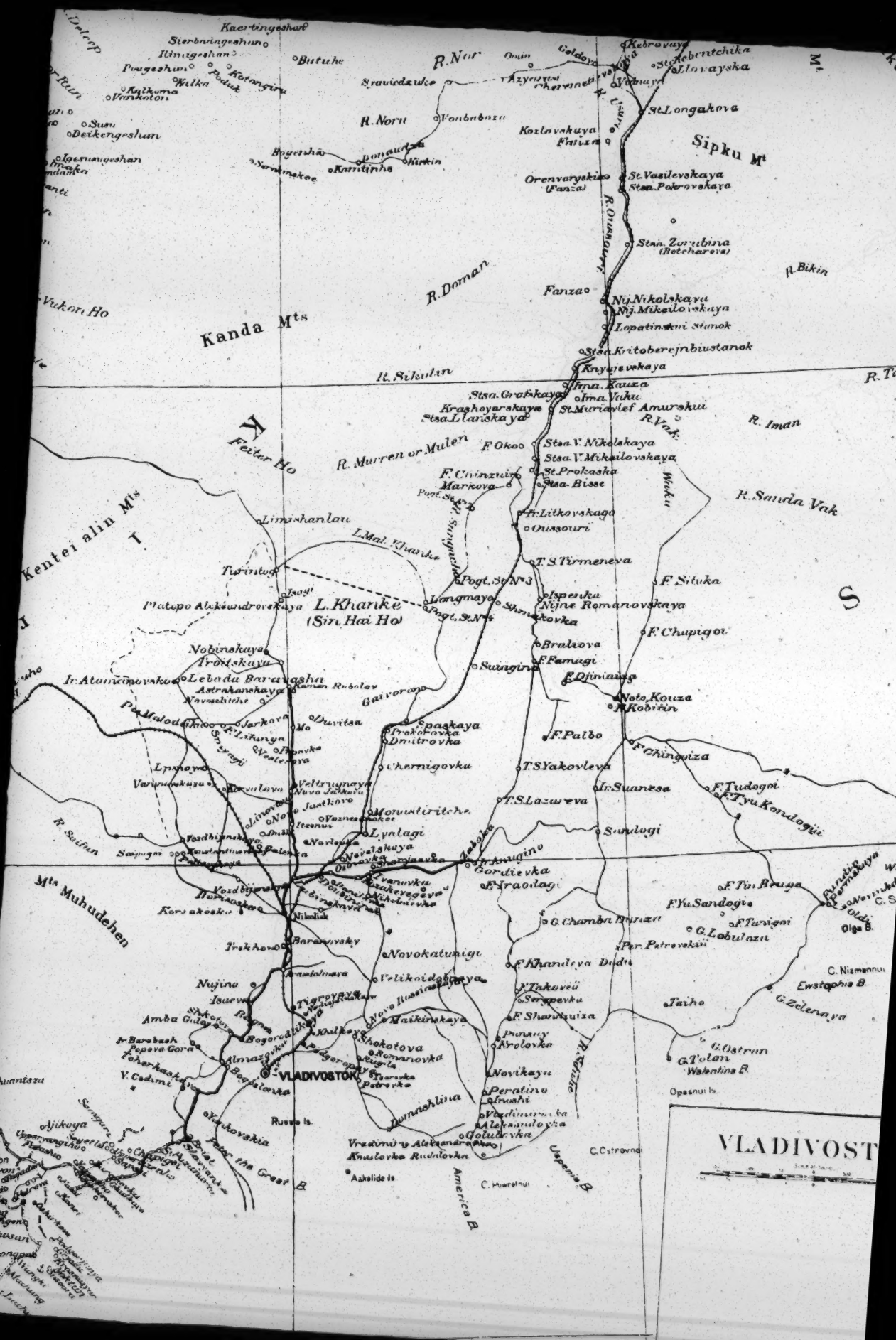
Askolide Is.
C. Povorotnui
America B.
Uspenia B.
VLADIVOSTOK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R. Bikin
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R. Smirla Vak
Kanda Mts
Sipku Mt
Mts Muhudehen
Kentei alin Mts
Feiter Ho
Vukori Ho
L. Kharike
(Sin Hai Ho)
VLADIVOSTOK
Russia Is.
Askelide Is
Peter the Great B
America B
Uspenia B
C. Ostrovno
C. Nizmennui
Opasnui Is
Olga B.
Ewstophia B.
Kaertingeshan
Sterbaingeshan
Ilimgeshan
Butuhe
Kelkoma
Vienkaton
Suan
Deikengeshan
Bogersha
Kamitirhe
Kirkin
Fanza
Orenvaryskoe
(Fanza)
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Nij. Mikailovskaya
Lopatinskoi Stanok
Stan. Kritoberejnbiustanok
Knyazevskaya
Stan. Zurubina
(Botcharova)
St. Vasilevskaya
Stan. Pokrovskaya
St. Longakova
Vobnaya
Kebrovaya
St. Kebritchika
Llovayska
Stan. Graiskaya
Krasnoyarskaya
Stan. Larskaya
Irma. Kauza
Irma. Viku
St. Muravlef Amurskui
F. Okoo
Stan. V. Nikolskaya
Stan. V. Mikailovskaya
St. Prokaska
Stan. Bisse
F. Chinzuiri
Markova
Fr. Litkovskaga
Oussouri
T. S. Tirmeneva
F. Situka
Pogt. St. N° 3
Pogt. St. N° 4
Longmayo
Ispenska
Nijne Romanovskaya
F. Chupigor
Braliova
F. Famagi
Suingina
F. Djiniaus
Noto Kouza
A. Kobrin
F. Palbo
F. Chingniza
T. S. Yakovleva
Ir. Suanesa
F. Tudogoi
F. Tyu Kondogiii
T. S. Lazueva
Sundogi
Zeboka
Ir. Anugino
Bordievka
F. Iraodagi
F. Tui Bauya
F. Yu Sandogio
F. Turigni
G. Lobulazu
G. Chamba Buriza
Per. Patrovskii
F. Khanduya Dudra
Tarho
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G. Ostrun
G. Tolan
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Alekandovka
Golubevka
Vrazdinovka Alexandrovka
Khalovka Rudolovka
Novokatunigi
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Tikoveii
Serpevka
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Almazovka
Bogorodskoe
Nujina
Isuevo
Tigrovaya
Amba Gulf
Ir. Barabash
Popova Gora
Toherkaska
V. Cadimi
Yakovskia
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Ajikoya
Upper Sangarsk
Pikasio
Chapigol
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Troitskaya
Matopo Alekseandrovskaya
Limishanlau
Turinstwo
Jagi
Jarkova
Duvitsa
Mo
Lyakova
Varpuchakaya
Valtruynaya
Nuvo Jatkova
Jastkovo
Moruvitiritche
Lyalagi
Navlevska
Vozdhizenskaya
Suifun
Swiagni
Spaskaya
Prokofievka
Dmitrovka
Chernigovka
Gaivoron
Suifun
Ivanovka
Nikolaevka
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Iraskhovo
Baranovsky
Grodekovo
Pogranichnaya
Vozdhizenskoe
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C. Soarewa
Chamudinza
(Sipamaydinza)
Tauzziberi
C. Belkina
Tarney B.
Plastun B.
Oprichnik B.
C. Vujniu
Wladimir B
C. Sovor
Olga B.
Nizmennii
B.
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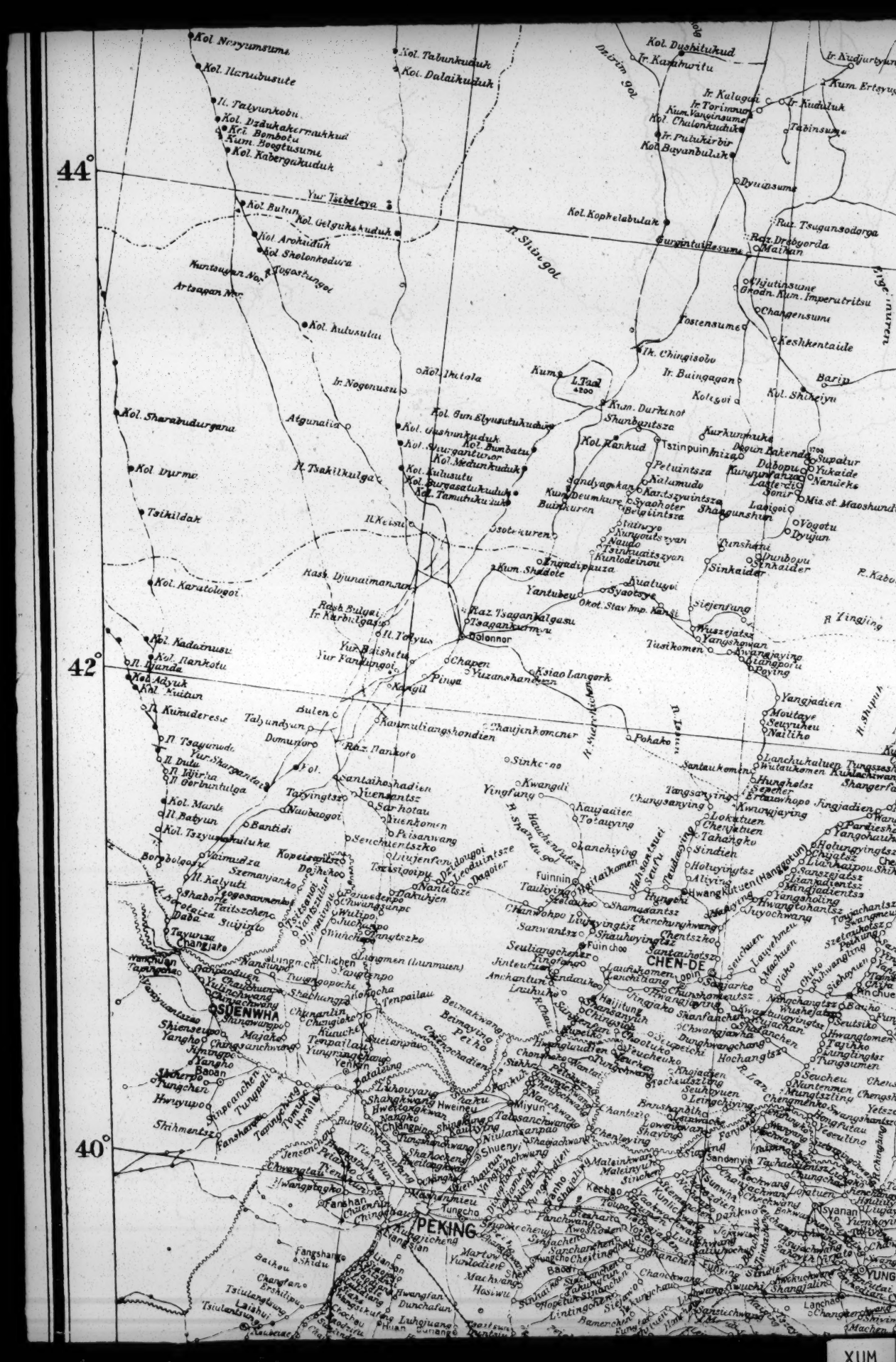
MURAVEV AMURSKI PENA
VLADIVOSTOK
OSTOK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Kol. Sharabudurgana
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Kol. Talyunkobu
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Kol. Bombotu
Kol. Beogtusumu
Kol. Nomyumsumu
Kol. Ikhtala
Kol. Gun Elyusutukuduk
Kol. Ushunkuduk
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R. Gotek
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Mt Telealin
Kl. Kuisubulak
Dalaikuk
R. Baisi
Shiuguter
Dabsat-nor
Belogen
Bayan Baishin
R. Cholo
Dju Dzyanail
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Sainkar
Mengilesume
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R. Shiramurin
Kuisui
Kukugilail
Shininsun
Tubingur (Oelgotu)
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Shiergudza
Lushatuail
Dungashor
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Chjala
Nanger
Maliger
Chi-fuin
Hoyan
Shidzyudzya
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Majuyingdien
Hungtautsz
Wujaying
Majyaying
Niutoshemun
Ngokungfu
Nanliang
Batartsz
Yenkwofu
Malachengtsz
Marleintsko
Sanjadien
Majuyingtsz
Erchinto
Tahseutan
Hutochen
Watszdien
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Shihapo
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Pingfantsz
Chaoyan
Dalinpu
Kangjiatun
Chengchiawang
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Sintuijingmen
Yeulingtsz
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Peishotsuymen
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Kuowangpo
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Tensheyingtsz
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Hsiaoyingtsz
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Ertaitsz
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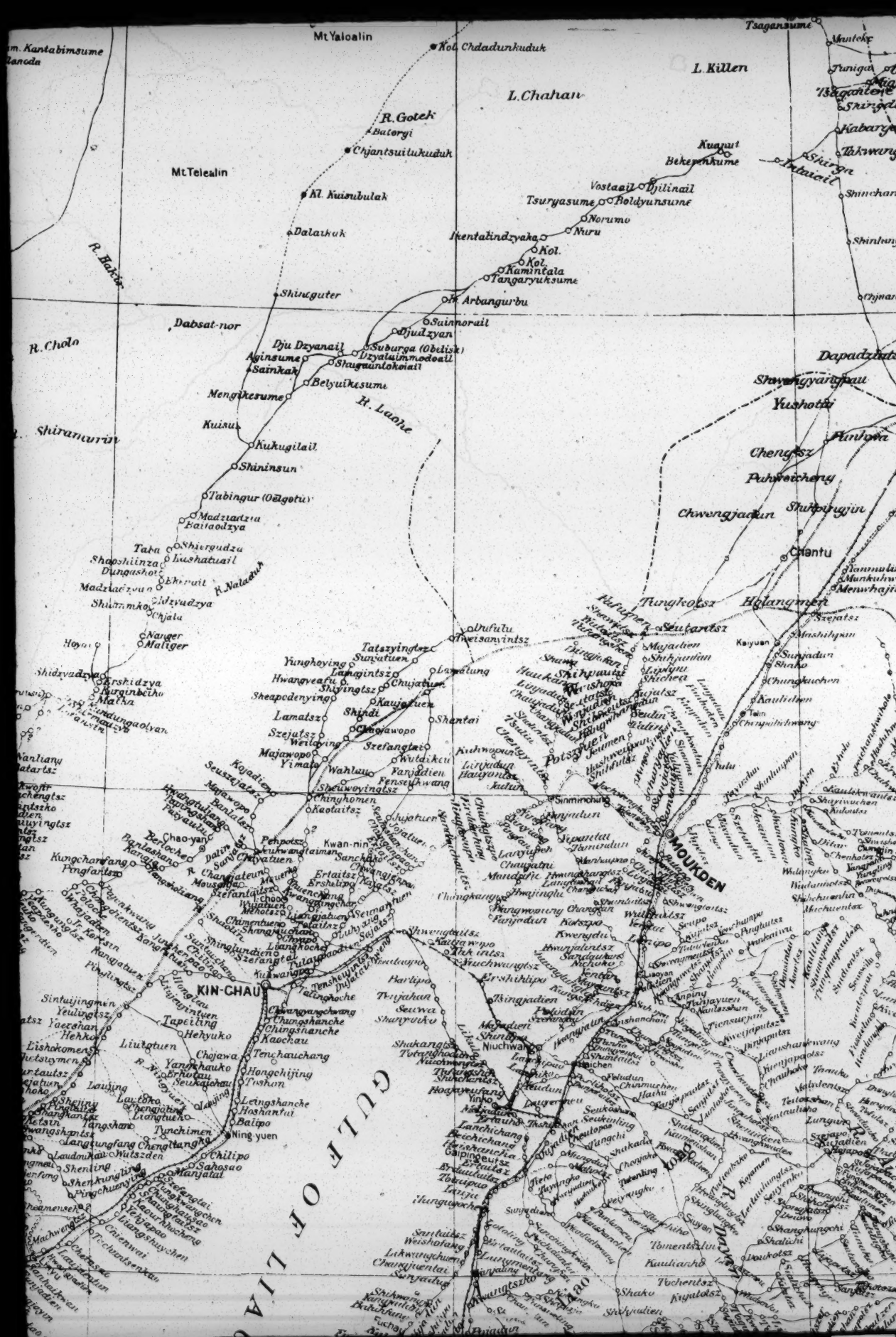
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R. Liao
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Nuru
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Kamintala
Tangaryuksume
Arbangurbu
Suinnorail
Djudzyan
Suburga (Obelisk)
Dju Dzyanail
Aginsume
Dzyaluimmodoail
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Sainkak
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Mengkesume
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Shaoshiinza
Dungashor
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Shidzyadzya
Shiramcurin
Shininmko
Chjalu
Nanger
Maitger
Hoyan
Shirshidzya
Kurginbeiho
Matha
Kungchangfang
Pingfantsz
Sintuijingmen
Yeulingtsz
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Yanshanko
Erhotau
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Leingshanche
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Chilipo
Sahosao
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Nutszden
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Chiangtuen
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Chengtiang
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Baitaodzya
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Tubingur (Olgotu)
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Aginsume
Dzyaluimmodoail
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Suburga (Obelisk)
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Boldyunsume
Tsuryasume
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Djilinail
Bekepenkume
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Dalaikuk
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Kol. Chdadunkuduk
Shiergudzu
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Dungashor
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Chjalu
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Munteke
Tunigun
Tsagantelie
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Kabargy
Takwang
Ashirgin
Indaiail
Shinchan
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Chjnan
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Yushotai
Chengtsz
Hunhoma
Puhweicheng
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Shukpingjin
Chiantu
Hanmulu
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Holangmen
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Chungkuchuan
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Shutaitsz
Mujadien
Shukjantun
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Wanshopo
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Shitaitsz
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Wulangkou
Hudaotsz
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Michwentsz
Shuchwanhu
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Shuidentsz
Sewlindz
Shuchwanhu
Michwentsz
Shuchwentsz

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Tulite
Tukushan
Kaolisua
Tchantin
Sakura
Fumpatin
Kungyuentsz
Mongolchuen
Sushuidantszu
Dapo
Sun Kotin
Djankuandun
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Alzhik or Aye R.
Lyundyutsza
F. Shasuian
F. Madyao
Linhupo
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Longikan
Solondjan
Tungkshin
Bilakunjan
Ergian
Mongolchen
Taikutamun (Bayandong)
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Sangayoi
Chaibaho
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Sakeyu
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Hachun
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Kwangjiachan
Kirinwujan
Nishuchan
Kirin
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Yitungho
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Penlaikotsz
Kwanjir
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Nanfolo
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Tumen R.
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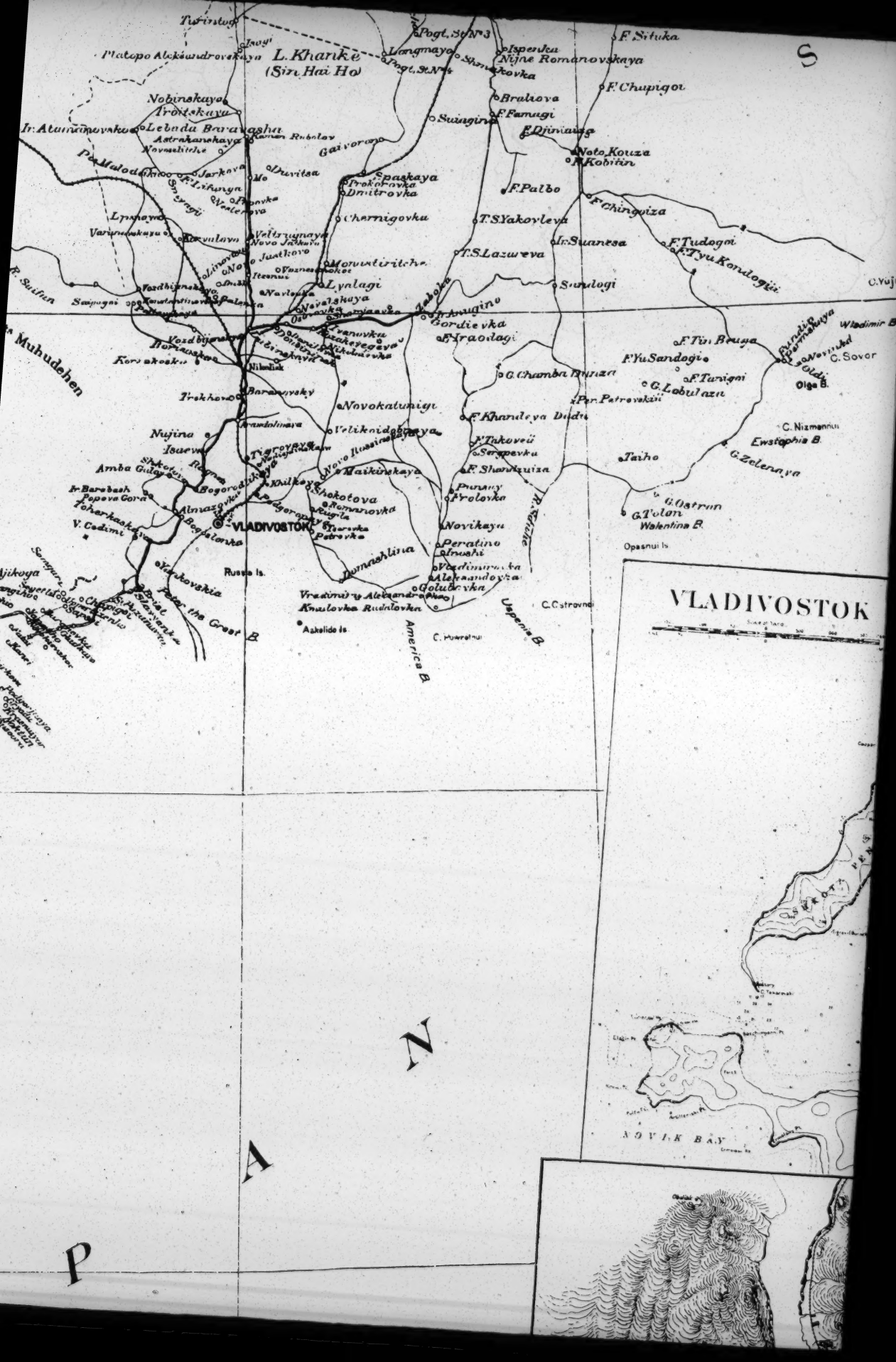
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Spasskaya
Chernigovka
Lyalagi
Suifun
Muhudehen
Amba Gidaya
Russo Is.
Askolde Is.
Peter the Great B.
America B.
Ussouria B.
Olga B.
Ewstophia B.
Opasnui Is.
C. Sovar
C. Nizmennui
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C. Yuj
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Kukchongchon
Sinchon
Hoiryong
Chasan
Hoiryong
Kongwon
Kiongwon
Kunwon
Hungkung
Hankia
Ajikoya
Nikolsk
Barabash
Almazovka
Nujina
Isaevo
Amba Gulay
Tigrovaya
Novokatunigi
Velikoidolskaya
Novo Ilyinskaya
Maikinskaya
Shokotova
Romanovka
Novikaya
Peratino
Vladimiro Alexandrovka
Goluboyka
Spaskaya
Prokofievka
Dmitrovka
Chernigovka
Lynlagi
Novolskaya
Gordievka
Iraolagi
Turintuy
Platopo Alekseevskaya
Nobinskaya
Troitskaya
Lebeda Barabasha
Astrakanskaya
Lynaya
Varfolomeevka
Jarkova
Lipkanya
Malo Khanka
Suifun
Mu Loe-Ho
Amati
Tunsin
Kokshimbo
Hanshuchuantsza
N
A
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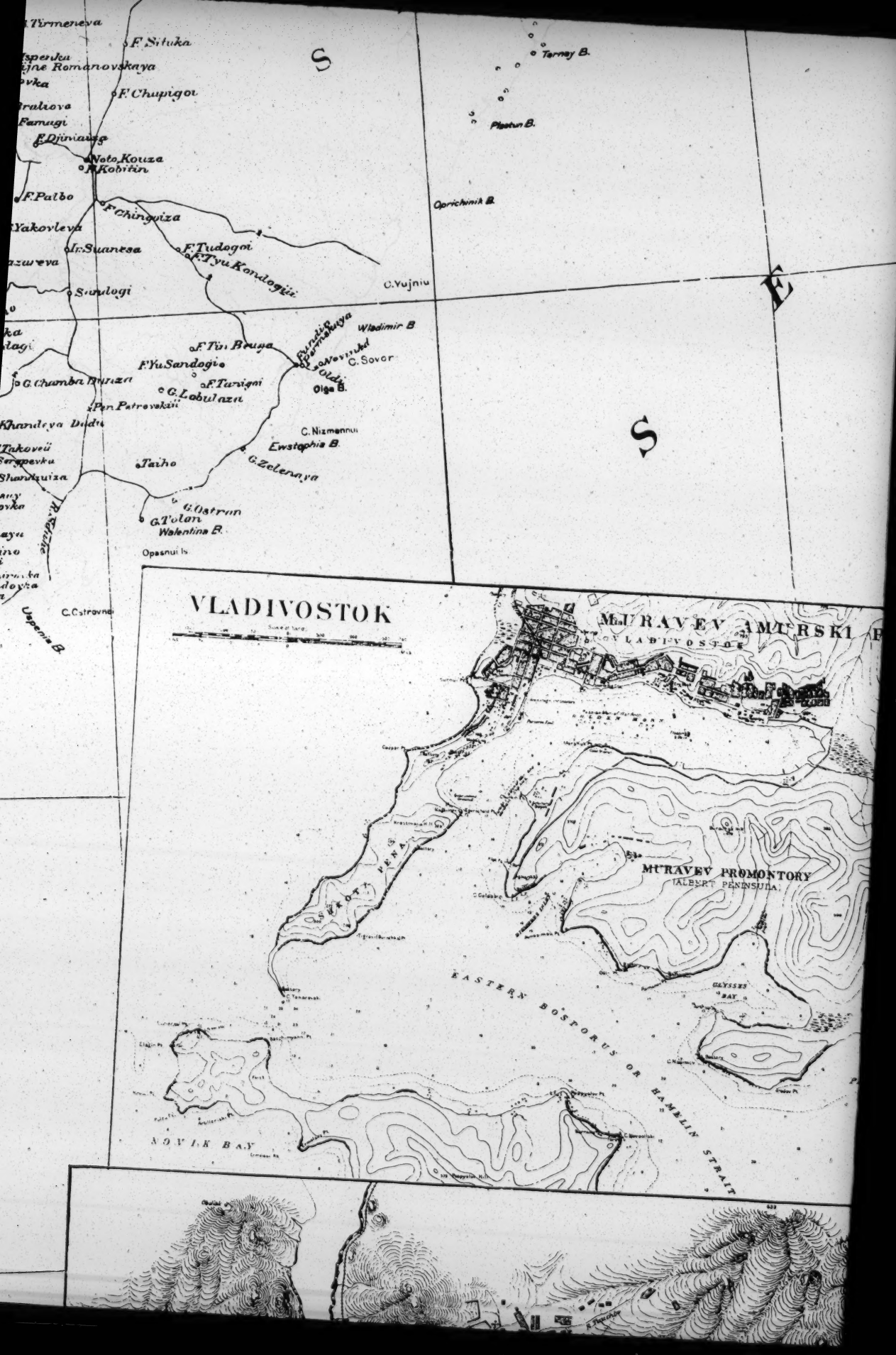
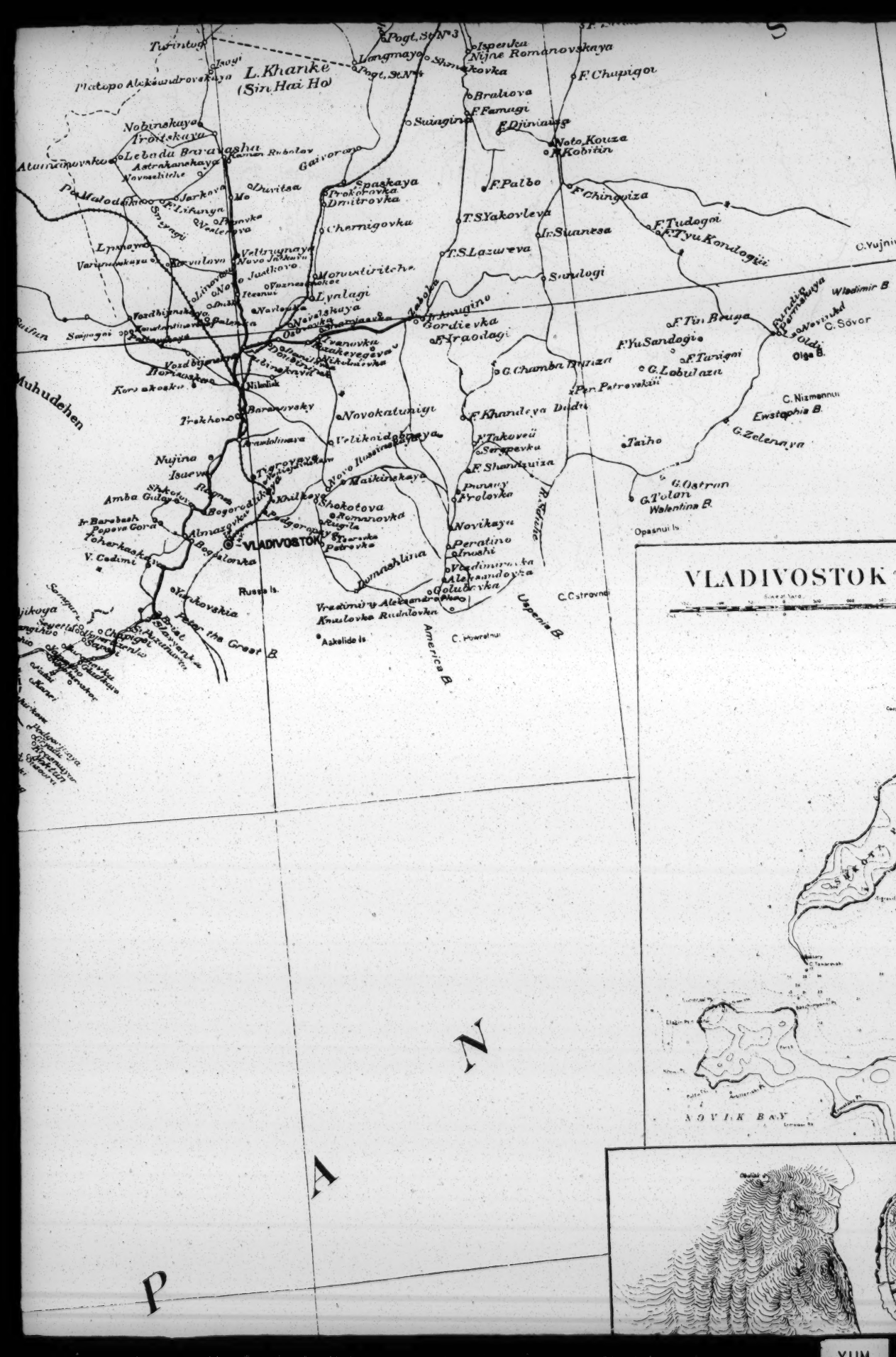

F. Situka
F. Chuprigoi
Famugi
F. Djiniaiza
Noto Kouza
K. Kobitin
F. Palbo
F. Chinguiza
Yakovleva
Ir. Suanesa
F. Tudogoi
F. Tyu. Kondogiin
C. Vujniu
Suudogi
Ternay B.
Plastun B.
Oprichinik B.
Wladimir B
C. Sovor
F. Tin Bruya
F. Yu. Sandogio
G. Chamba Buriazi
F. Tunigoi
G. Labulazin
Olga B.
Pen. Patrovskii
C. Nizmennui
Ewstophia B.
G. Zelenaya
Taiho
G. Ostrun
G. Tolan
Walentina B.
Opasnui Is
C. Ostrovnoi
Uspenia B.
VLADIVOSTOK
MURAVEV AMURSKI
MURAVEV PROMONTORY
ALBERT PENINSULA
EASTERN BOSPORUS OR HAMELIN STRAIT
GLYSSES BAY
NOVIK BAY


L. Khanka
(Sin Hai Ho)
VLADIVOSTOK
Russ Is.
Askolide Is.
Peter the Great B.
America B.
Ussuria B.
Muhudehen
Nikolsk
Barabash
Popova Gora
Amba Gulay
Shkotovo
Khilkovo
Romanovka
Petrovka
Novokatuniga
Pokrovka
Spaskaya
Dmitrovka
Chernigovka
Lyalagi
Suifun
Lyamaya
Nobinskaya
Troitskaya
Lebada
Astrakanskaya
Alumnovska
Jarkova
Likanya
Pogranichnaya
Vasilevka
Suifungai
Vozdvijenka
Kamen Rybolov
Gaivoron
Proletarskaya
Nijne Romanovskaya
Shmakovka
Braitova
Famugi
Djiniuza
Noto Kouza
Kobitin
Palbo
Chinguiza
Tudogai
Tyu Kondogiii
Yakovleva
Lazweva
Sundogi
Ir. Suanesa
Bordievka
Iraodagi
Tin Bruga
Yu Sandogie
Turigni
Lobulazu
Chamba Dunza
Per. Petrovskii
Khandeya
Tsukovii
Serpevka
Shanduiza
Taiho
Zelenaya
Ostrun
Tolan
Valentina B.
Nizmennui
Ewstophia B.
Olga B.
Vladimir B.
Sovar
Opasnui Is.
Novikaya
Peratino
Inushi
Vladimirovka
Alekandrovka
Golubovka
Vrazumi
Knulovka
Rudnikovka
Nujina
Isuevo
Tigrovaya
Baranovsky
Tsukhoro
Velikoidolskaya
Maikinskaya
Prolovka
Pusany
Tumnshlina
Sergeevka
Almazovka
Bogolubovka
Yankovskia
Vasilevka
Chapigoi
Sidemi
Toherkaske
Russ Is.
VLADIVOSTOK
NOVIK BAY
N
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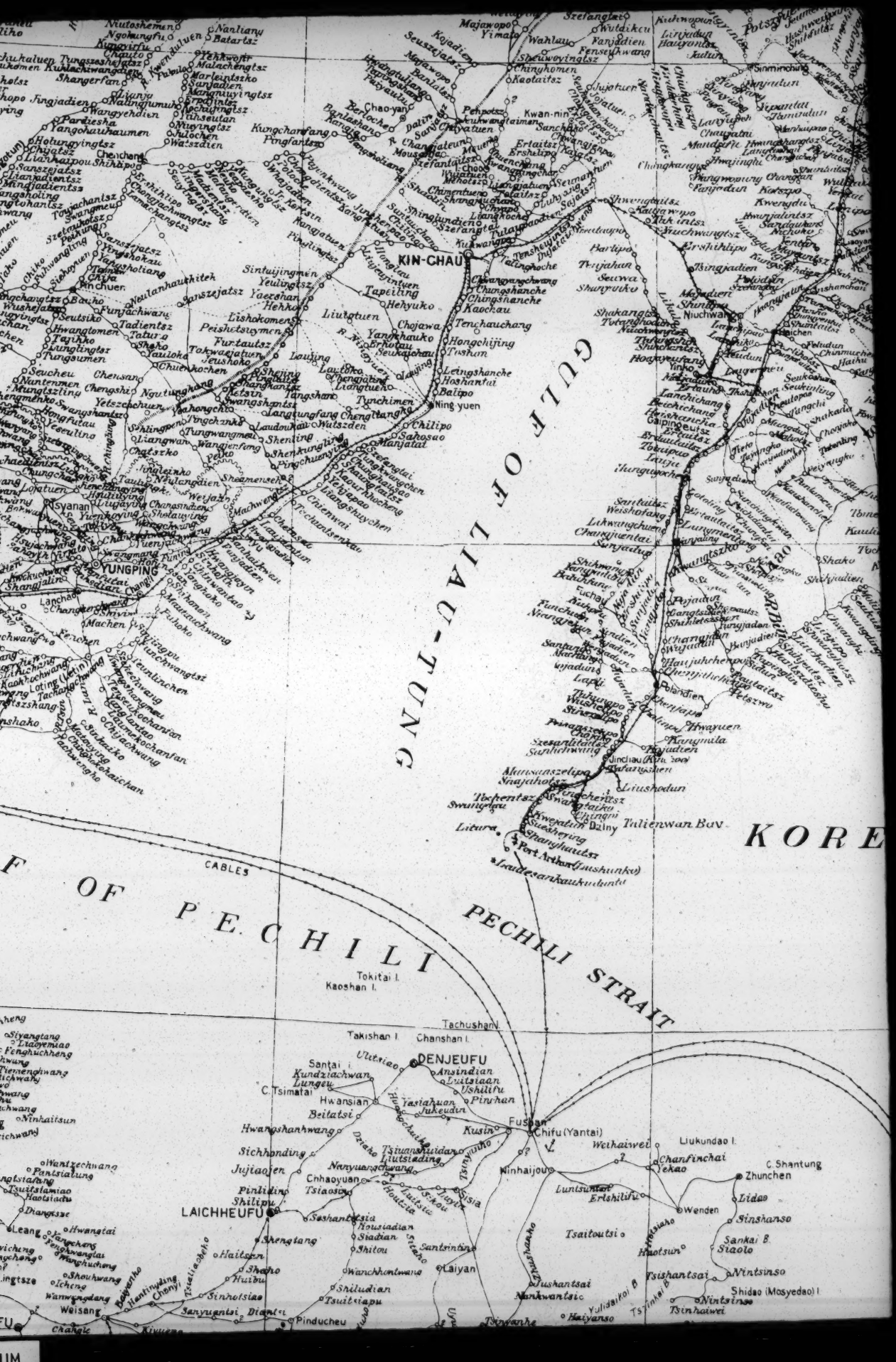
P

A
E
S
44°
42°
40°
Plastun B.
Oprichnik B.
MURAVEV AMURSKI PENA
VLADIVOSTOK
GOLDEN HORN
MURAVEV PROMONTORY
ALBERT PENINSULA
EASTERN BOSPORUS OR HAMELIN STRAIT
ULYSSES BAY
SOBOL BAY
PATROCLUS BAY

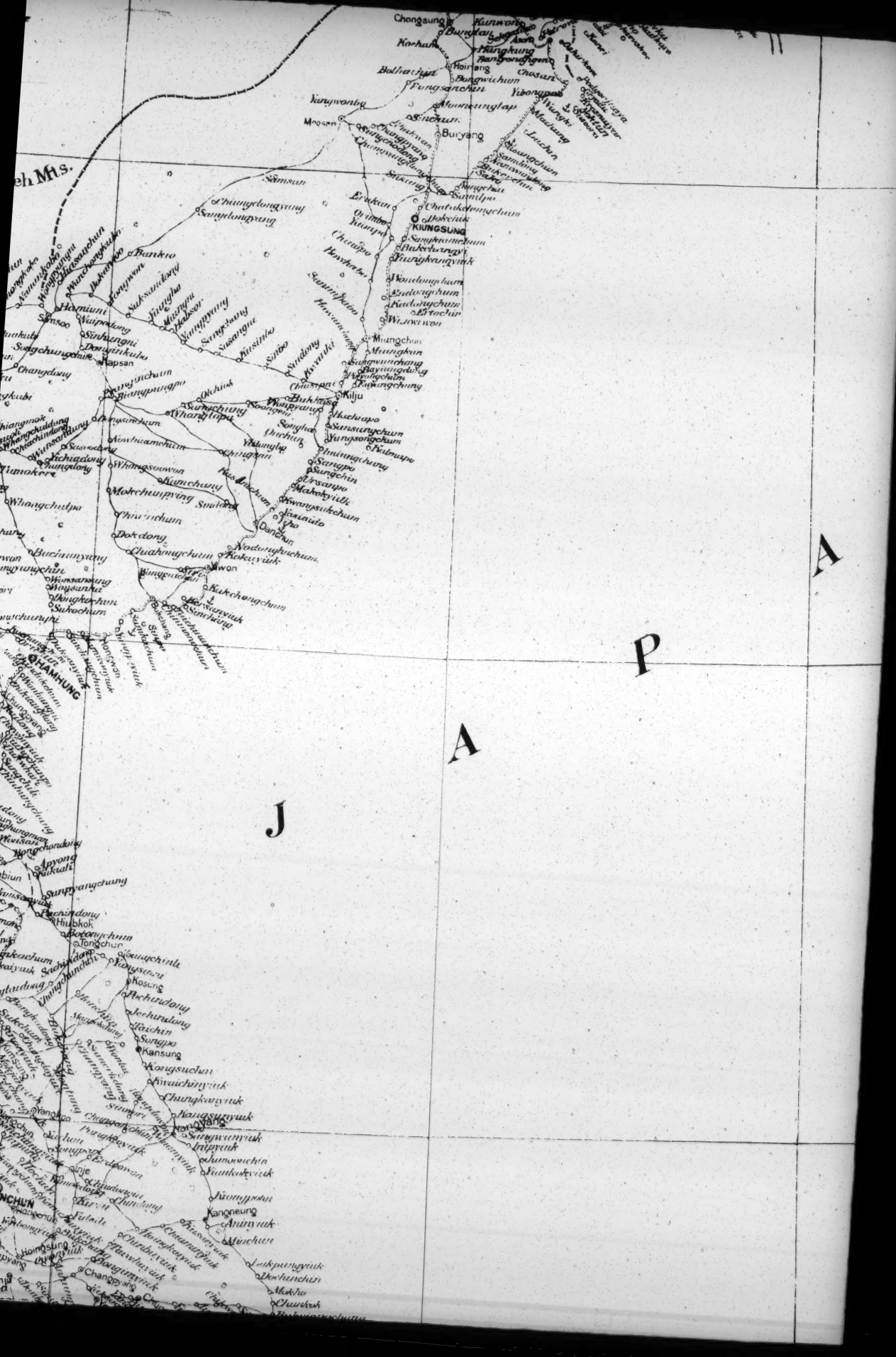
40°
38°
PEKING
TIENTSINFU
CHEN-DE
SUENWHA
TSINCHEU
LINTSINCHEU
HETSIANGFU
TAOTINFU
UDINFU
TSINCHHEUFU
SINANFU
GULF

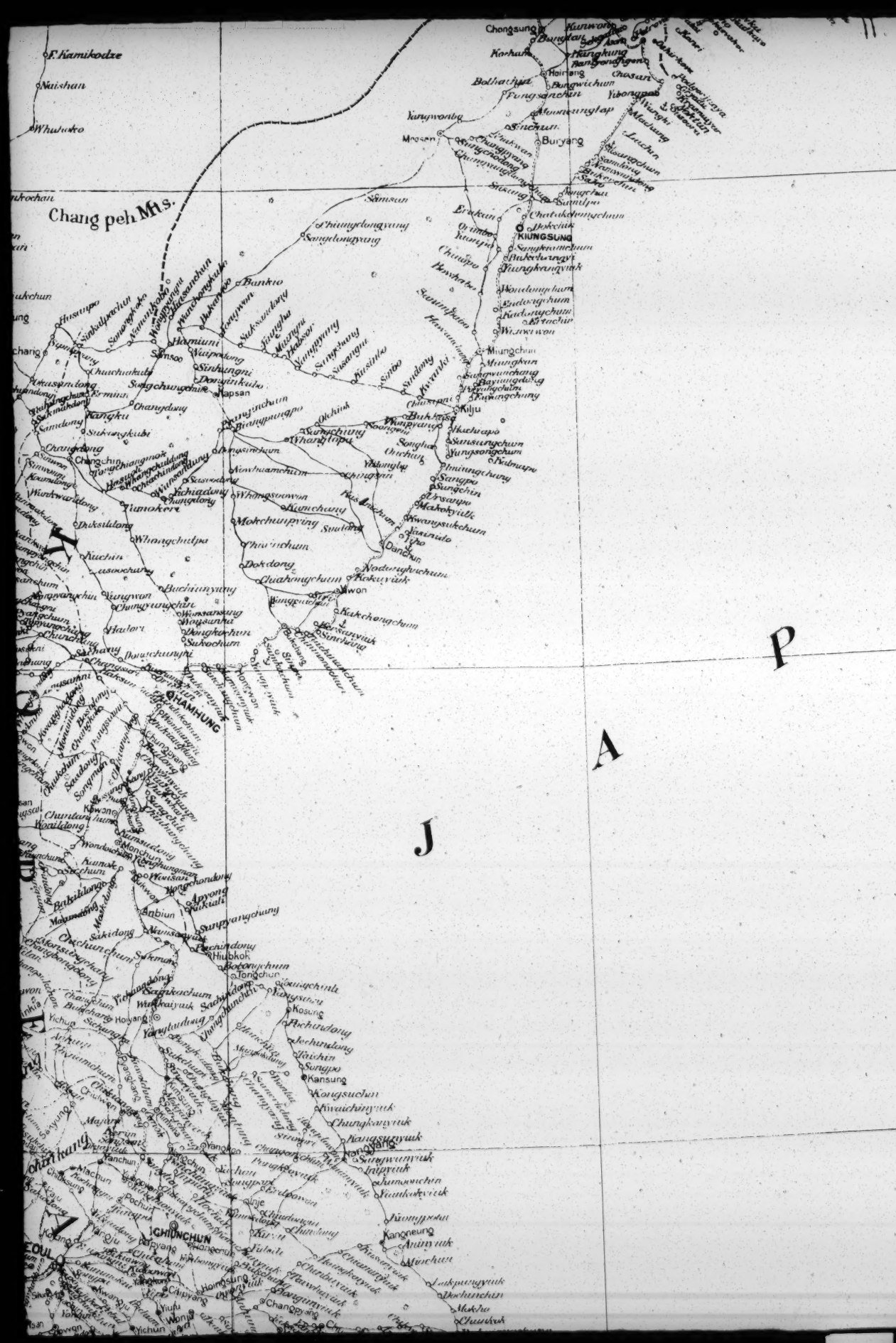

KIN-CHAU
GULF OF LIAU-TUNG
YUNGPING
DENJEUFU
LAICHHEUFU
Fusan
Chifu (Yantai)
Kusin
Hwansian
Beitatsi
Hwangshanhwang
Sichhonding
Jujiaofen
Pinlidiing
Shilipu
Tokitai I.
Kaoshan I.
Takishan I.
Chanshan I.
Tachushan I.
Santai I.
Kundziachwan
Lungeu
C. Tsimatai
Ansindian
Liutsiaan
Ushilifu
Pinyhan
Jukeudin
Ertaitsi
Kwan-ning
Chao-yang
Kungchangfang
Pingfangtsz
Yingkow
Kaiping
Yentai
Weihaiwei
Liukundao I.
Chanfinchai
Yekao
C. Shantung
Zhunchen
Lidao
Wenden
Sinshanso
Sankai B.
Siaolo
Nintsinso
Shidao (Mosyedao) I
Tsinhaiwei
Tsishantsai
Tsaitoutsi
Lunlsuntan
Erlshilifu
Haiyanso
Yulidaikoi B.
Tsinkai B.
Shushantsai
Nankwantsic
Laiyan
Santsintsai
Shitou
Housiadian
Siadian
Seshantsisia
Shengtang
Haitsen
Shaho
Huibu
Sinholsiao
Sanyuantsi
Diantsi
Pinducheu
Weisang
Chahole
Kiuyeng
Wanchhontwang
Shiludian
Tsuitsiapu
Tsuitsiaoho
Shouhwang
Ichang
Hentingying
Chanyitsiaoho
Sinholsiao
Wanwangdang
Leang
Hwangtai
Yangchang
Fenghwangtai
Manghuchang
Diangsze
Wantzechwang
Pantsiatung
Tsuitslamiao
Haotsiudu
Ninhaitsun
Siyangtang
Liaoyemiao
Fenghuicheng
Tiemenchwang
Chwang
Yenchwang
Yuenkwang
Yuenkwangying
Yuenkwangtsz
Yuenkwangchwang
Yuenkwangchwangtsz
Yuenkwangchwangtsz
Yuenkwangchwangtsz

KIN-CHAU
MOUKDEN
GULF OF LIAU-TUNG
PECHILI STRAIT
P E C H I L I
KOREA B
Liaotung Bay
Talienwan Bay
DENJEUFU
Chifu (Yantai)
LAICHHEUFU
Port Arthur (Lushunkou)
Dalny
Weihaiwei
Liukundao I.
C. Shantung
Zhunchen
Lidao
Sinshanso
Wenden
Ninhaijou
Fusan
Kusin
Hwansian
Beitatsi
Pinchan
Yasiahuan
Jukeudin
Tachushan I.
Takishan I.
Chanshan I.
Tokitai I.
Kaoshan I.
CABLES
Ning yuen
Chilipo
Laoyang
Liaotschen
Tschentsz
Shakou
Kujatolsz
Niuchwang
Yinkou
Tashihchiao
Haicheng
Liaoyang
Tashichiao
Pensihu
Penhsihu
Fushun
Sinmintschang
Tiehling
Changchun
Kirin
Kwanchengtsz
Kaiyuan
Tieling
Szepingkai
Mukden
Liaoyang
Yingkou
Kaiping
Haicheng
Anshan
Liaoyang
Penhsihu
Fushun
Sinmintschang
Tiehling
Changchun
Kirin
Kwanchengtsz
Kaiyuan
Szepingkai

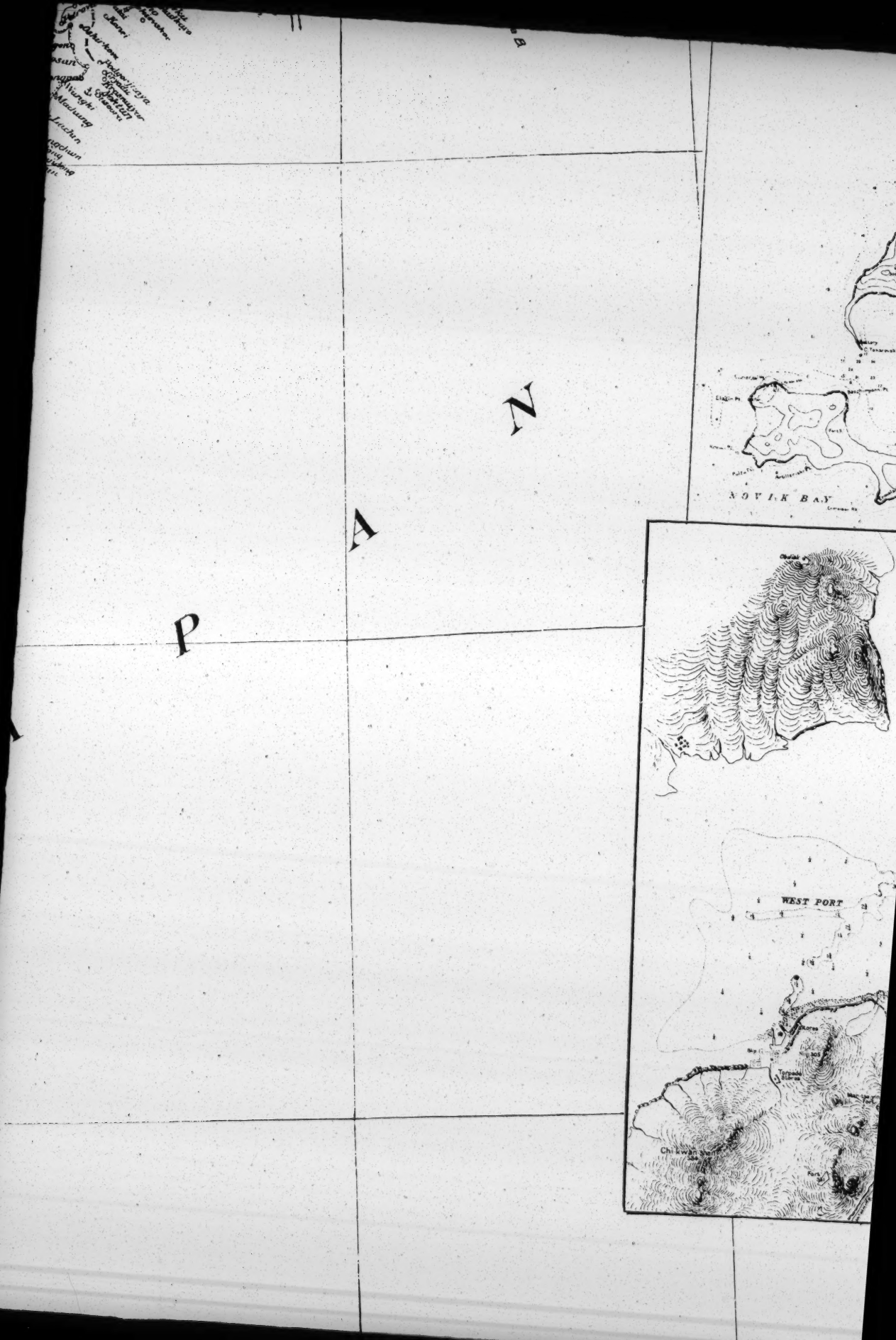
Chang peh Mts.
BAY
SEOUL
CHINCHUN
KAISUNG
HAJU
SARIWON
PIANGYANG
CHUNGJU
HAMHUNG
WHANGJU
Chemulpo
Inchun
Kiodong
Susimuto

MOUKDEN
PYANGYANG
CHUNGJU
KAISUNG
SEOUL
HAIJU
FUSAN
REA BAY
Chang peh Mt
Yalu R.
Taitung R.
Han R.
Kum R.
Naktong R.
Tsushima
Chemulpo
Inchon
Yunhungdo
Susimdo
Tsushima


KIUNGSUNG
KAMHUNG
Chongsung
Kunwon
Burgkai
Korham
Hangkung
Hoirang
Bolhachipri
Pungsanchin
Yangwonbo
Musan
Buryang
Samsan
Kilju
Danchun
Kangneung
Kansung
Kosung
Yangyang
Changyang
Hapsan
Hamhung
Sinhungni
Bankto
Hwangsuwon
Whangchutpa
Dokdong
Kwangpungpo
Kwanchung
Kwangsuchin
Kwangsuchun
Kwangsuchun
Kwangsuchun


Chang peh Mts.
KIUNGSUNG
CHUNCHUN
HAMHUNG
SEOUL
Chongsung
Kunwon
Kanhwa
Kiungkung
Hairang
Bolhachiya
Yongwichun
Yangwonbo
Musan
Sinchun
Buryang
Samsun
Erukan
Sangdongyang
Bankio
Hamjuni
Sinhungni
Hapsan
Kiju
Sunchung
Yungsongchun
Dokdong
Kakchongchun
Sangchin
Makokyuik
Kwangsukchun
Dantchun
Kokuyuik
Kosung
Kansung
Kongsuchun
Kwaichingyuik
Chungkangyuik
Kangneung
Anjuyuik
Munchun
Ansan
Anbiun
Hiubokok
Yangtaidong
Sukchun
Yichun
Hoiyang
Kumsong
Yanchun
Pochun
Hoengsung
Chippyang
Yiuju
Wonju
Yichun
F. Kamikodze
Naishan
Whutsuko
Bankio
Hamjuni
Sinhungni
Hapsan
Kiju
Sunchung
Yungsongchun
Dokdong
Kakchongchun
Sangchin
Makokyuik
Kwangsukchun
Dantchun
Kokuyuik
Kosung
Kansung
Kongsuchun
Kwaichingyuik
Chungkangyuik
Kangneung
Anjuyuik
Munchun
Ansan
Anbiun
Hiubokok
Yangtaidong
Sukchun
Yichun
Hoiyang
Kumsong
Yanchun
Pochun
Hoengsung
Chippyang
Yiuju
Wonju
Yichun

N
A
EASTERN BOS
NOVIK BAY
WEST PORT
PORT ARTHUR


N
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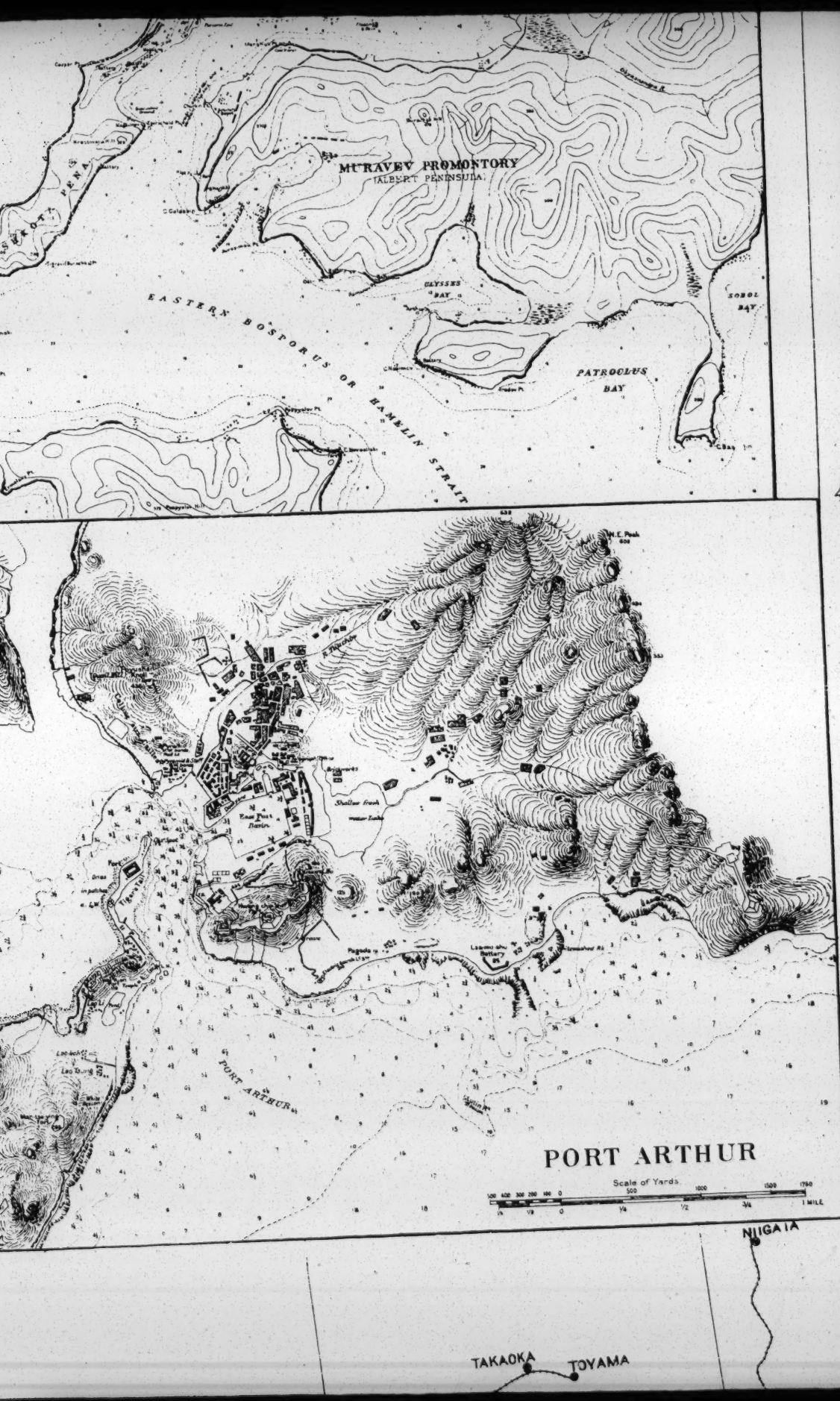
P
NOVIK BAY
WEST PORT


MT RAVEV PROMONTORY
(ALBERT PENINSULA)
EASTERN BOSPORUS OR HAMELIN STRAIT
ULYSSES BAY
PATROCLUS BAY
SOBOL BAY
40°
38°
PORT ARTHUR
Scale of Yards
NIIGATA
TAKAOKA
TOYAMA

GULF OF
38°
36°
34°
HETSIANGFU
TSICHEU
UDINFU
LINTSINCHEU
TSINCHHEUFU
TSINANGFU
DUNCHANGFU
TAIANGFU
YANGCHEUFU
TSININCHEU
SAOCHEUFU
YICHEUFU
HUIDEFU
SIUICHEUFU
Putai
Boshang
Lingtsui
Laiwu
Sishui
Fei
Yuicheng
Yuncheng
Suchhu
Suinin
Tanyuan
Sutsian
Bochau
Menchen
Yangcheng
Peichheu
Haichheu
Litsiachwang
Yichuan
Yicho
Shuyar
Gangyi
Lingchan
Linyi
Danshang
Siayi
Susing
Yuitai
Ninyang
Yenchen
Tsihe
Lekou
Yuicheng
Tsiyang
Chitsintsau
Haotan
Chantsiachwang
Matsiachwang
Shangteuchiang
Changtsiu
Lunshangchheng
Litsiachwang
Putsiang
Hwanghai
Putszi
Tszechwang
Lindiang
Chwantsungchheng
Changtsiu
Changle
Nantung
Matsze
Yankiuchhen
Singhantsze
Lungchengpu
Dashihchwang
Antsiu
Tsinjiven
Twankuo
Shitzepu
Mulinhwang
Shunhsitun
Tsintsiv
Mintan
Machhang
Chachwang
Ishui
Dachhang
Jetsian
Chunhsiang
Liutsiachen
Tsiuicheu
Chauyuri
Sachwantsi
Hwansipo
Tsiunyuanchwung
Dupintsi
Dushuitung
Shilipu
Litsiachwang
Yicho
Tsinho
Shangchwangho
Shaho
Loma
L. Tsin
L. Shoisun
Yi
Dukeho
Siltsicho
Old Bed of Hoangho
L. Weishang
L. Tatsu
Feng Shia
Yuicheng
Hwaiyuan
Tsaochwang
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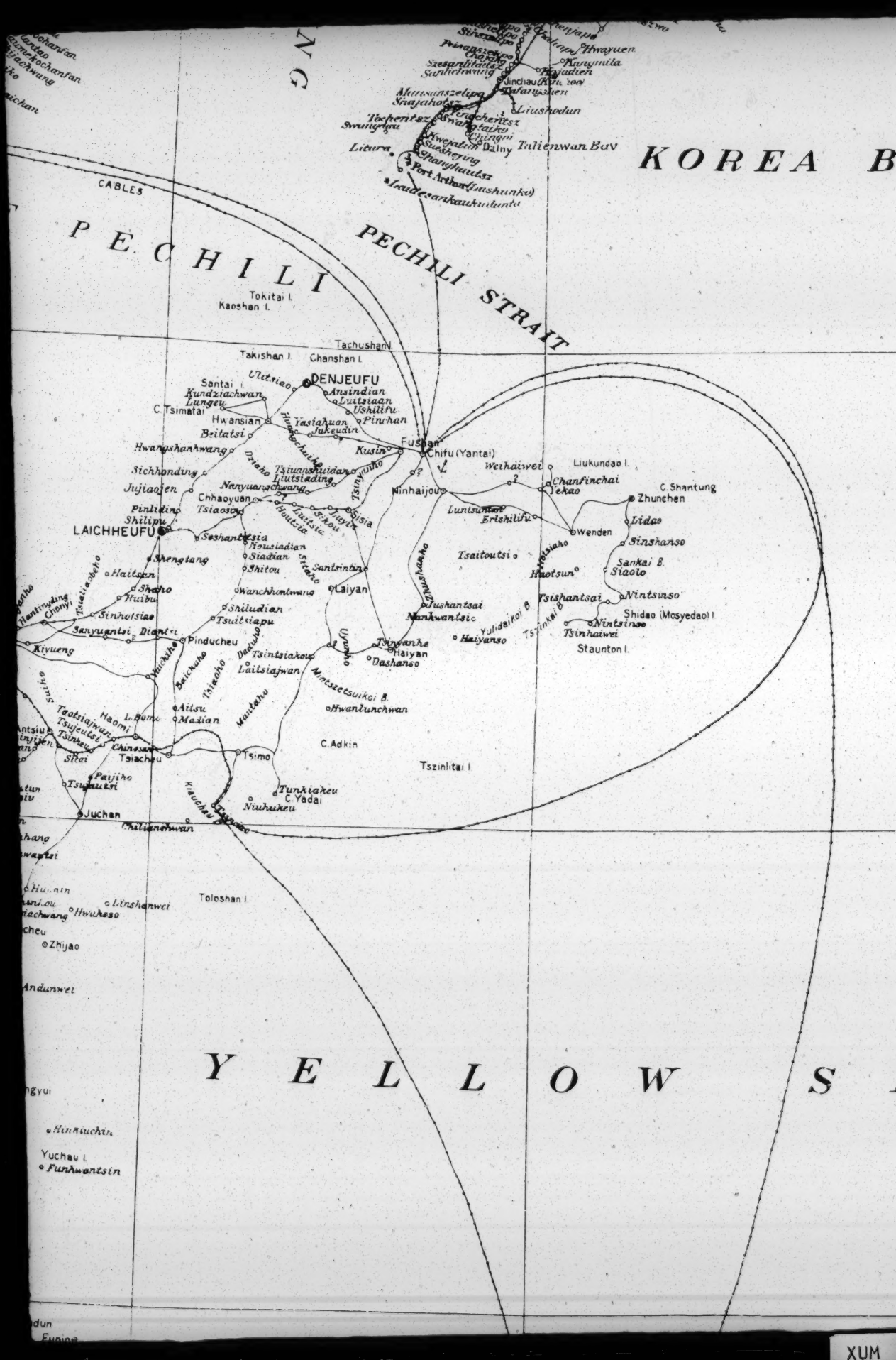
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P E C H I L I
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Port Arthur (Lushunkou)
Liaotesankaukuantu
Litura
Dalny
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Hwayuen
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Jinchau
Tafangshen
Tachushan
Takushan I.
Chanshan I.
Tokitai I.
Kaoshan I.
DENJEUFU
Santai
Kundziachwan
Lungeu
C. Tsimatai
Hwansian
Beitatsi
Ansindian
Liutsiaan
Ushilifu
Pinchan
Yasiahuan
Jukeudin
Fusan
Chifu (Yantai)
Kusin
Weihaiwei
Liukundao I.
Chanfinchai
Yekao
C. Shantung
Zhunchen
Lidao
Sinshanso
Sankai B.
Siaolo
Nintsinso
Shidao (Mosyedao) I.
Nintsinso
Tsinhaiwei
Staunton I.
Ninhaijou
Lunitsuntan
Erhshilifu
Wenden
Tsaitoutsi
Hwotsun
Tsishantsai
Yulidaikoi B.
Tsinkai B.
Haiyanso
Tsinwanhe
Haiyan
Dashanso
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Shitou
Siadian
Housiadian
Seshantsia
LAICHHEUFU
Shilipu
Pinliding
Chhaoyuan
Nanyuanchwang
Liutsiading
Tsiaosiu
Pinducheu
Kiyueng
Sinhotsiao
Sanyuantsi
Diantsi
Haitsen
Shacho
Huibu
Shengtang
Wanchhuntwang
Shiludian
Tsuitiapu
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Madian
Hwanlunchwan
Tsimo
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Tunkiakeu
C. Yadai
Niuhukeu
Juchan
Chilianchwan
Toloshan I.
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Hwuheso
Zhijao
Andunwei
Yuchau I.
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Chinesan
Tsiacheu
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Haomi
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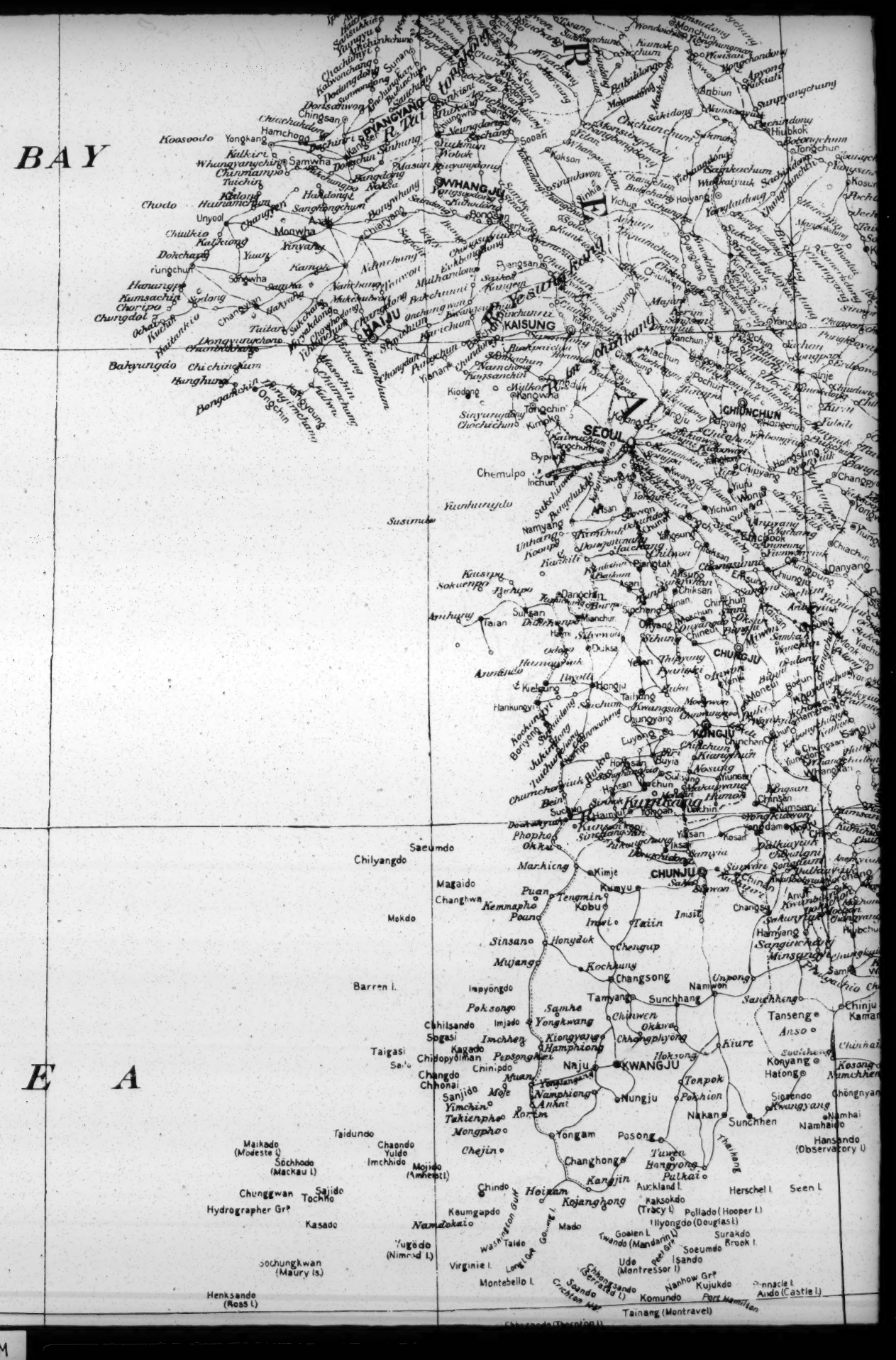
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R. Naktong
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R. Tongjin
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Tsushima
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Nagasaki
Goto Is.
Quelpart I.
Auckland I.
Herschel I.
Seen I.
Hansando (Observatory I.)
Tainang (Montravel)
Henksando (Ross I.)
Sochungkwan (Maury Is.)
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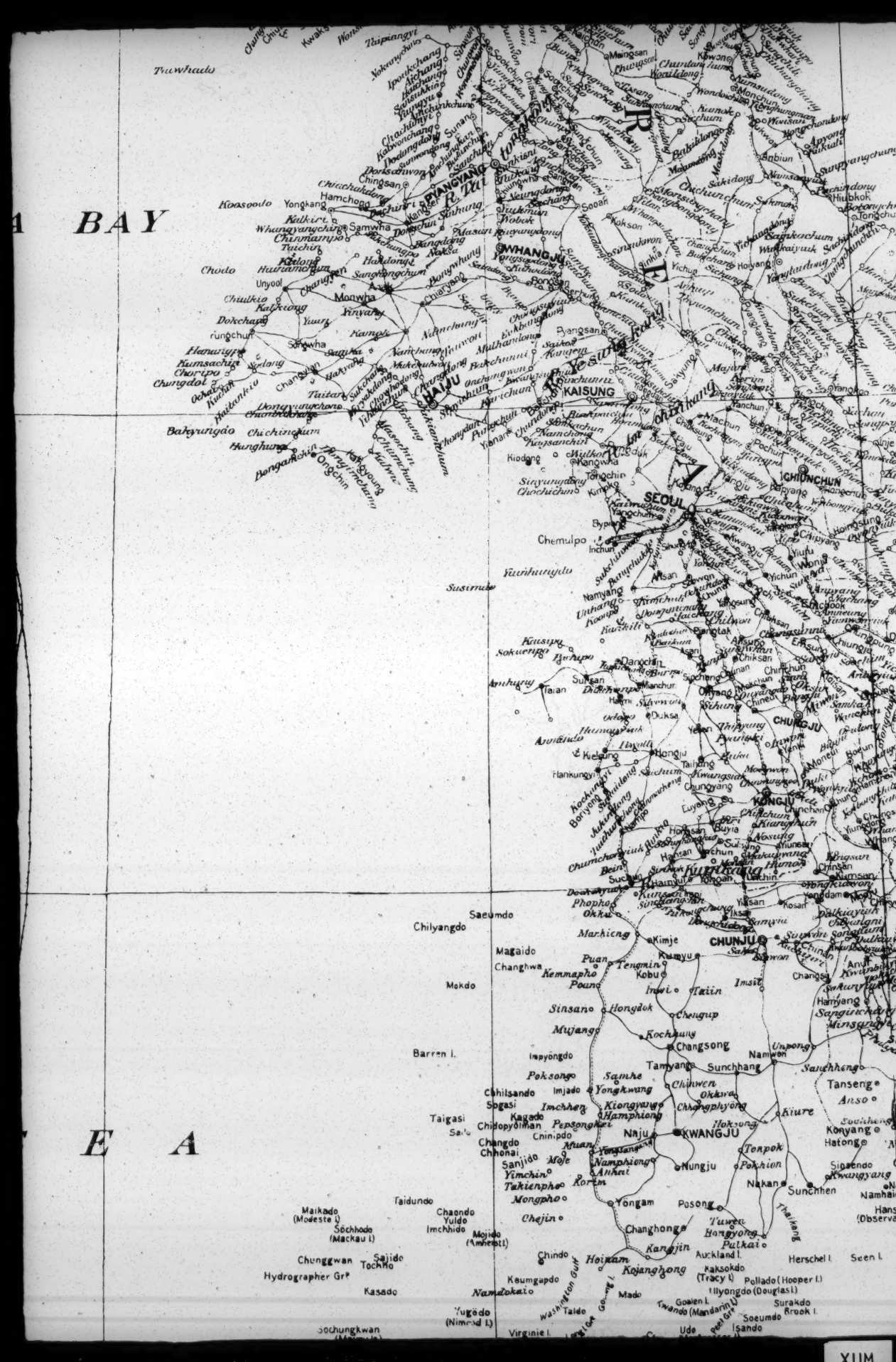
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Chimmanyo
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Sajido
Sochungkwan

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Anuiyuk
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Danyang
Bongwha
Yangchai
Nounghai
Chinbo
Sangju
Hanghai
Sicryang
Chilkok
Hayang
Kyongsan
Chinju
Kamam
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Kosong
Chiaun
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Kasa
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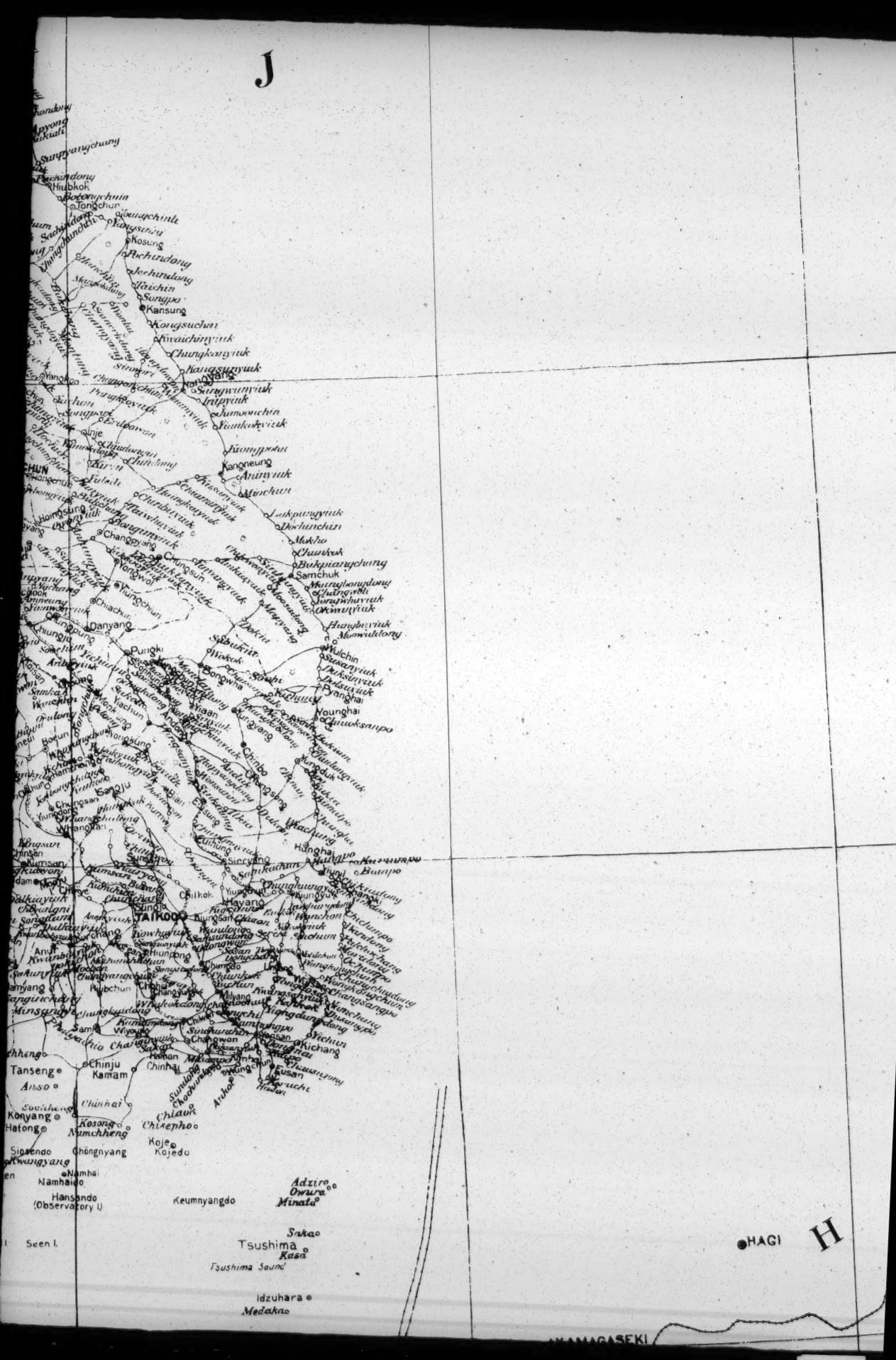
Idzuhara
Medakno
HAGI
YAMAGASEKI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H
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Tsushima
Tsushima Sound
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(Observatory I)
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Kamam
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Kasa
Idzuhara
Medakao
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Sangju
Kumsan
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Sinryang
Hayang
Chilkok
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Kangneung
Samchuk
Wulchin
Youngchai
Hanghai
Chinbo
Bongwha
Punggi
Yecheng
Changsong
Kichang
Yichin
Hwachung
Chiaan
Yuchi
Kusan
Changwon
Chinhae
Konyang
Hatong
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Namhaido
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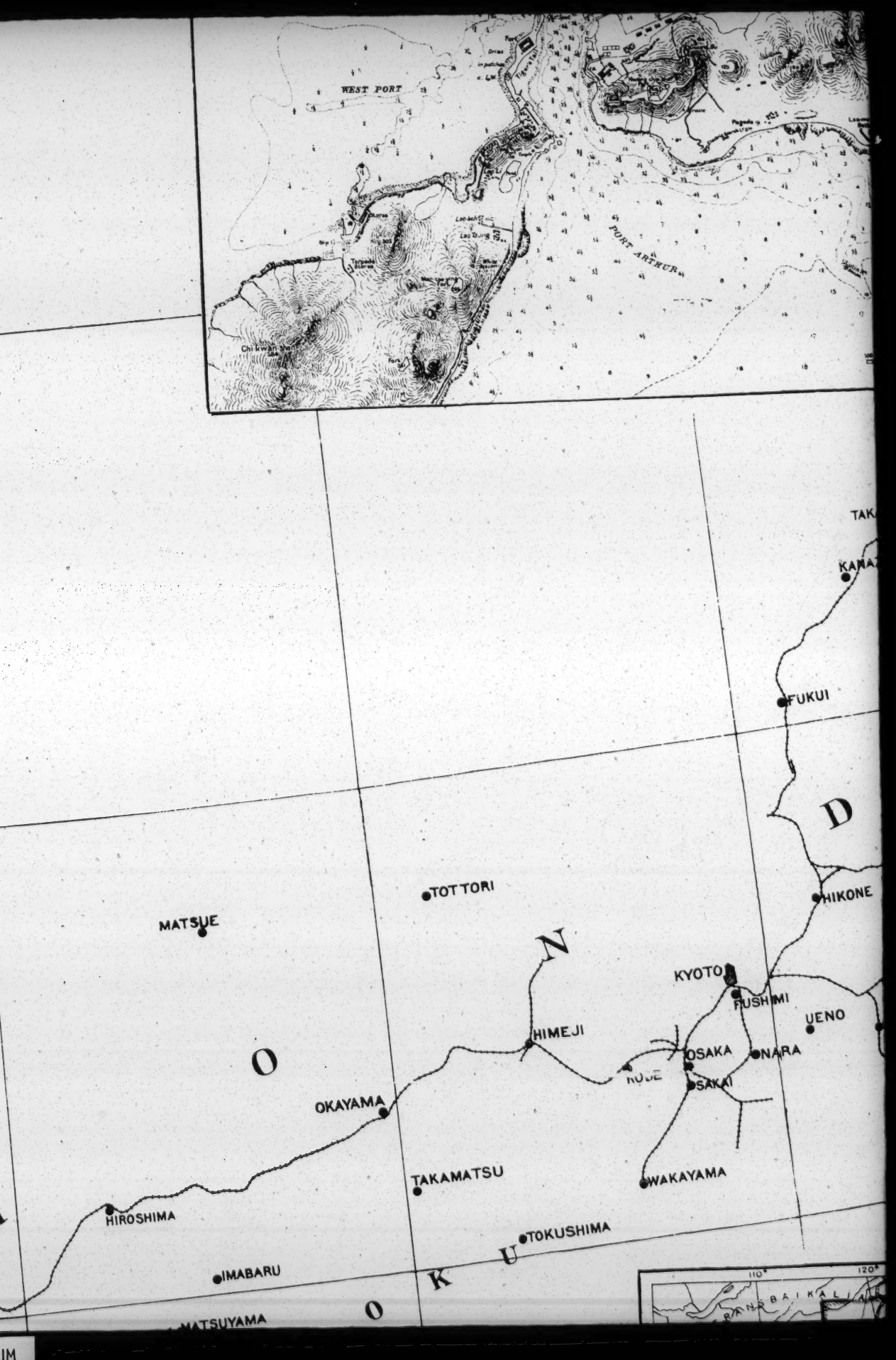
WEST PORT
PORT ARTHUR
TAK
KAMA
FUKUI
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TOTTORI
HIKONE
MATSUE
N
KYOTO
FUSHIMI
UENO
HIMEJI
O
OSAKA
NARA
KOBE
SAKAI
OKAYAMA
TAKAMATSU
WAKAYAMA
HIROSHIMA
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U
O
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120°
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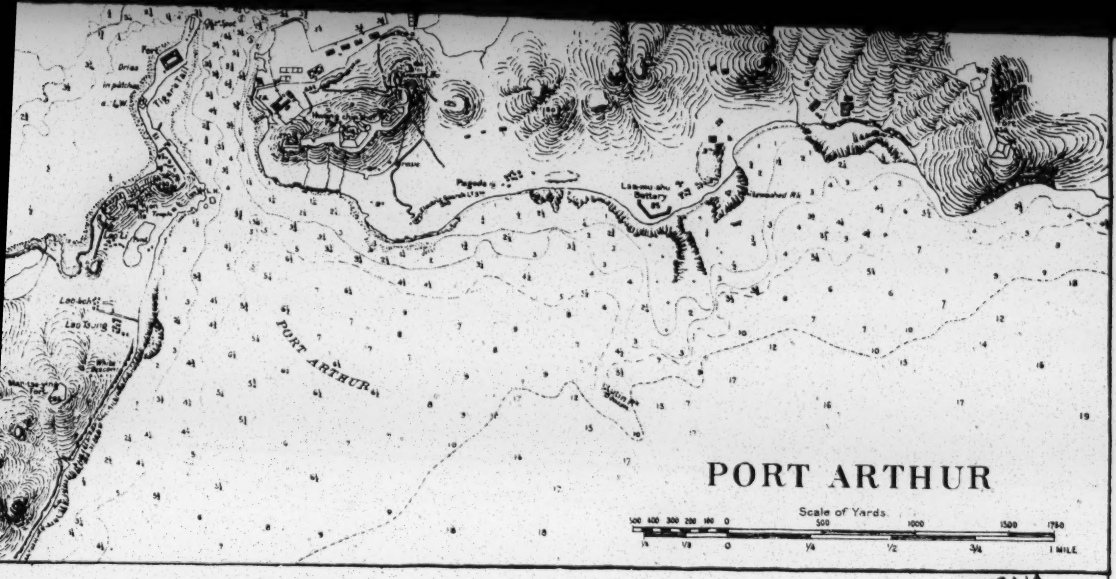

38°

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36°

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NAGOYA

SHIZUOKA

KYOTO

FUSHIMI

YOKKAICHI

HIMEJI

UENO

TSU

OSAKA

NARA

SAKAI

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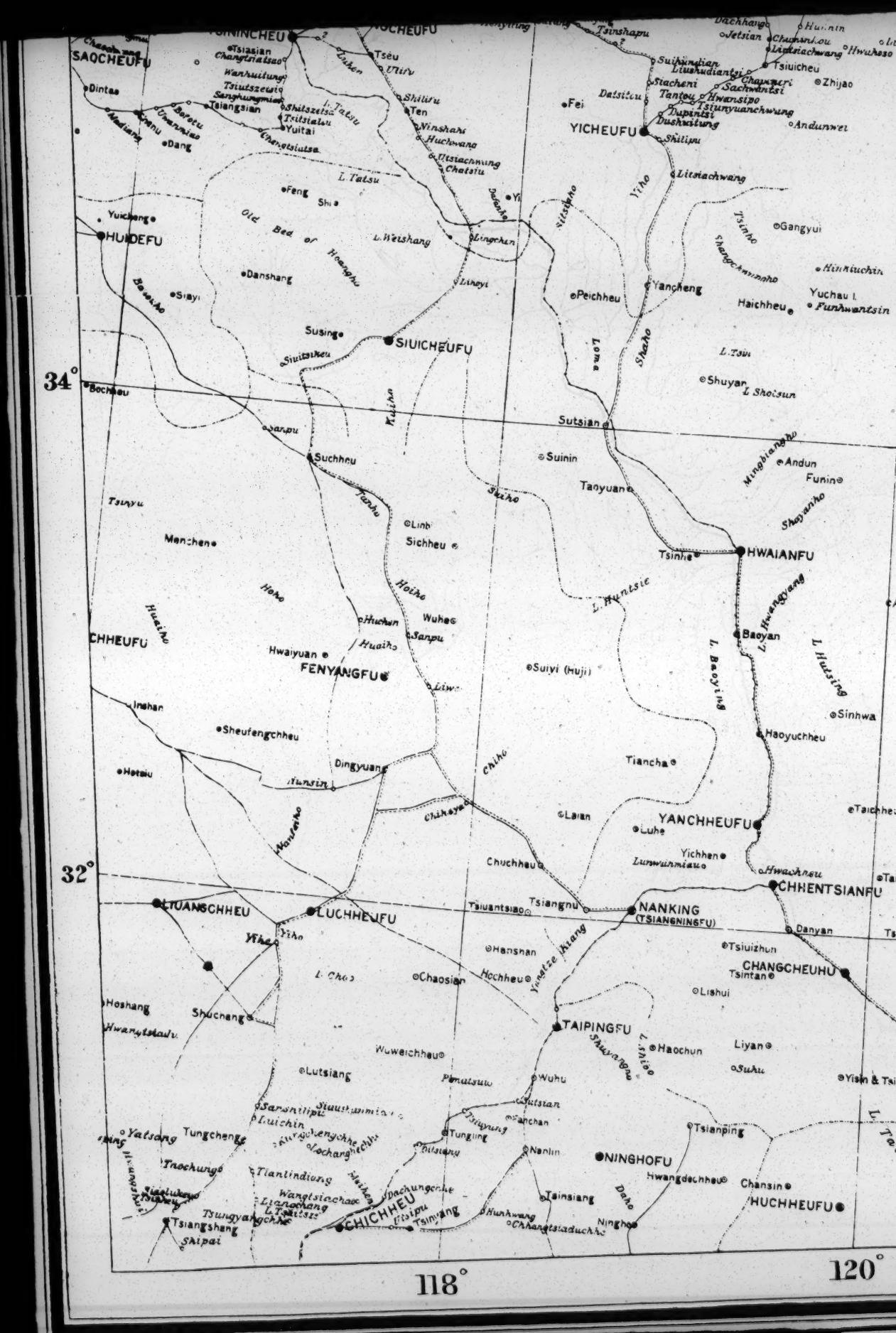
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Changtsiutsa
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Lunwunmiao
Chuchhou
Hwaichneu
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Tsiuantsiao
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(TSIANGNINGFU)
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Tsintan
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Hanshan
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Shuchang
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Wuweichheu
Lutsiang
Pumutsun
Wuhu
Haochun
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Suhu
Yisin & Tsi
Shuangpu
L. Sia
Sansilipu
Luichin
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L. Hwangyang
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L. Hutsing
Sinhwa
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Map of the Far Eas
Map of the South
British Admiralty
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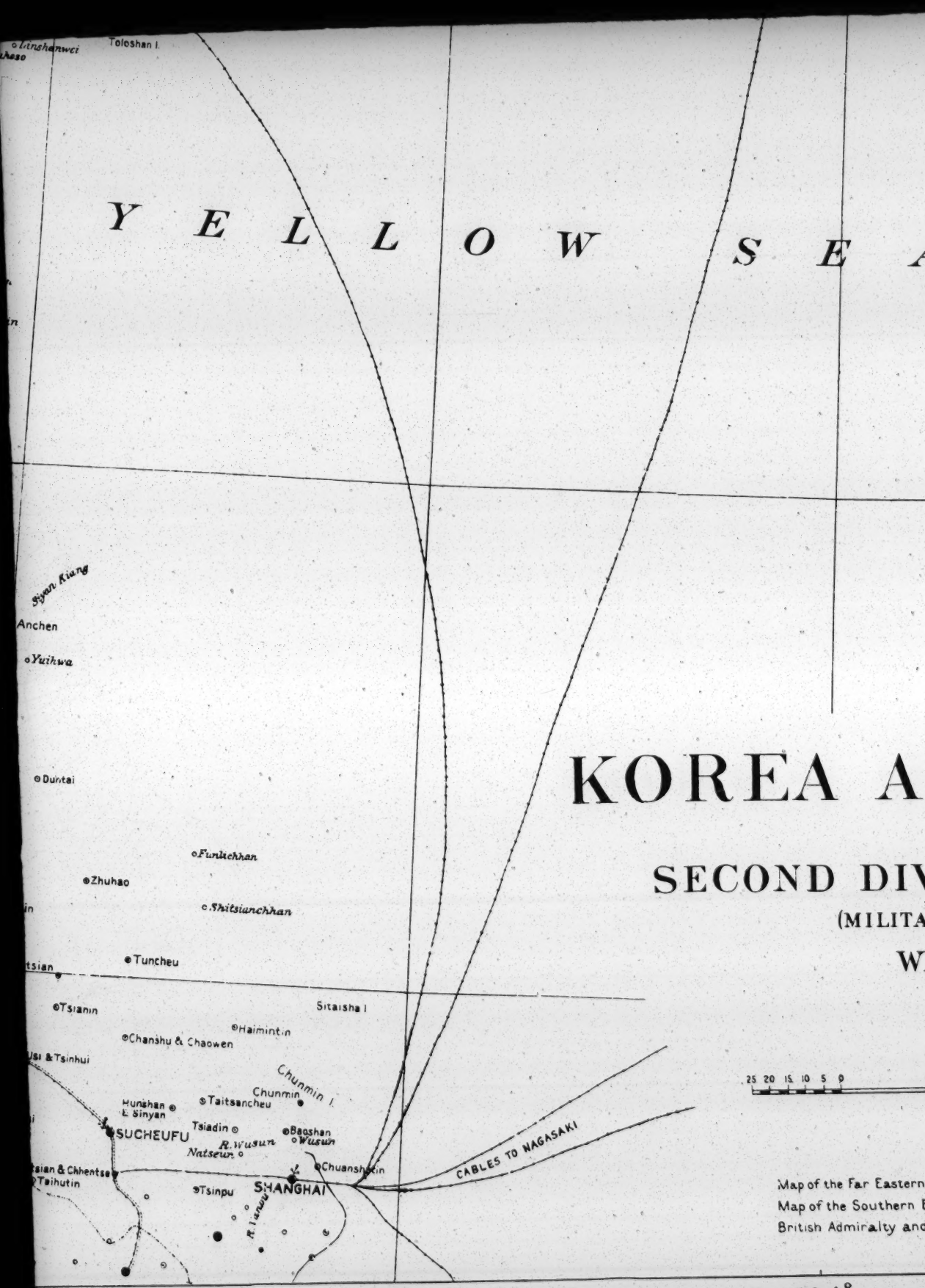
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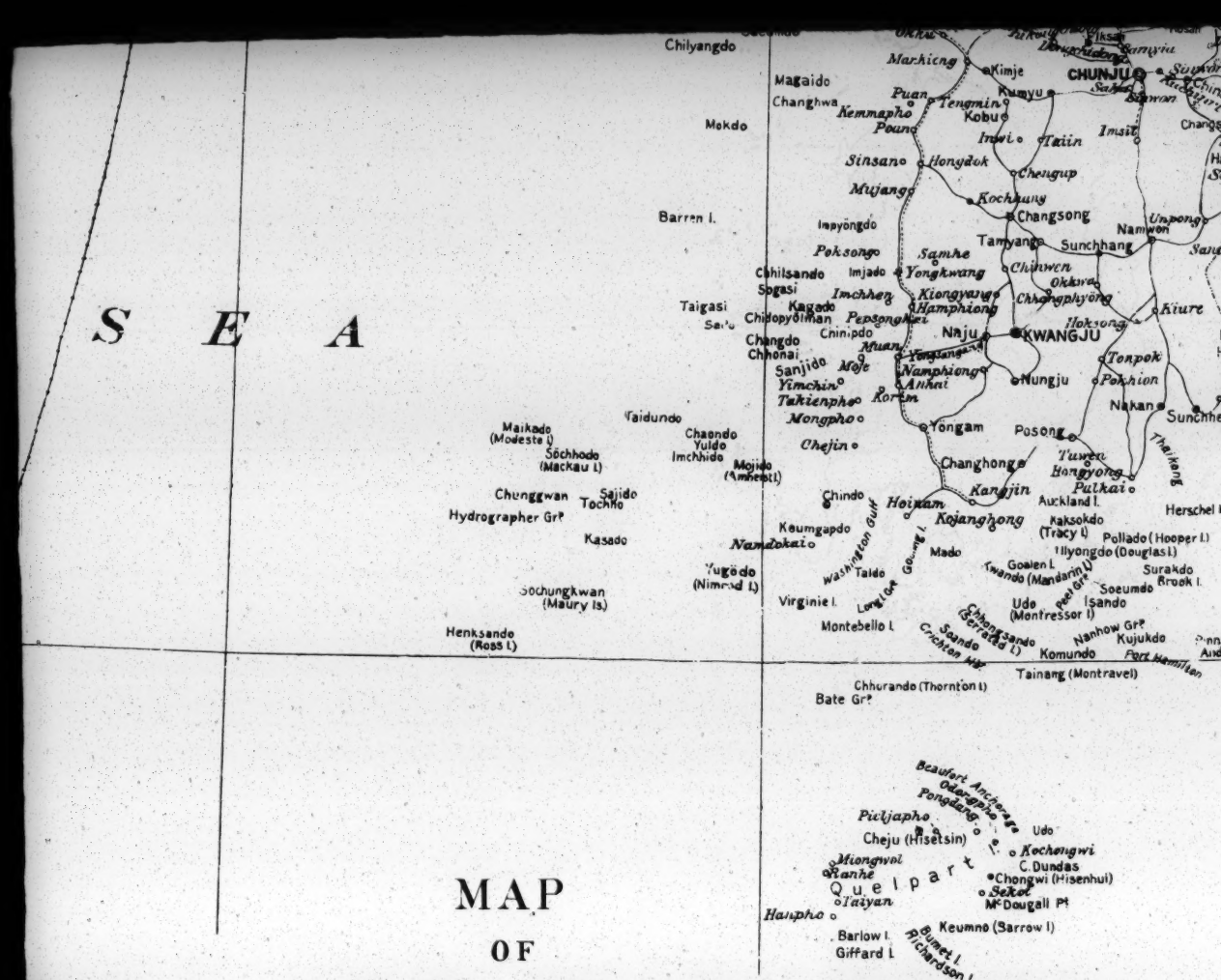


MAP
OF
REA AND MANCHURIA

PREPARED BY THE

ECOND DIVISION, GENERAL STAFF

(MILITARY INFORMATION DIVISION)

WAR DEPARTMENT

WASHINGTON, U. S. A.

FEBRUARY, 1904.

SCALE OF MILES

25 20 15 10 5 0 25 50 75 100 125 150

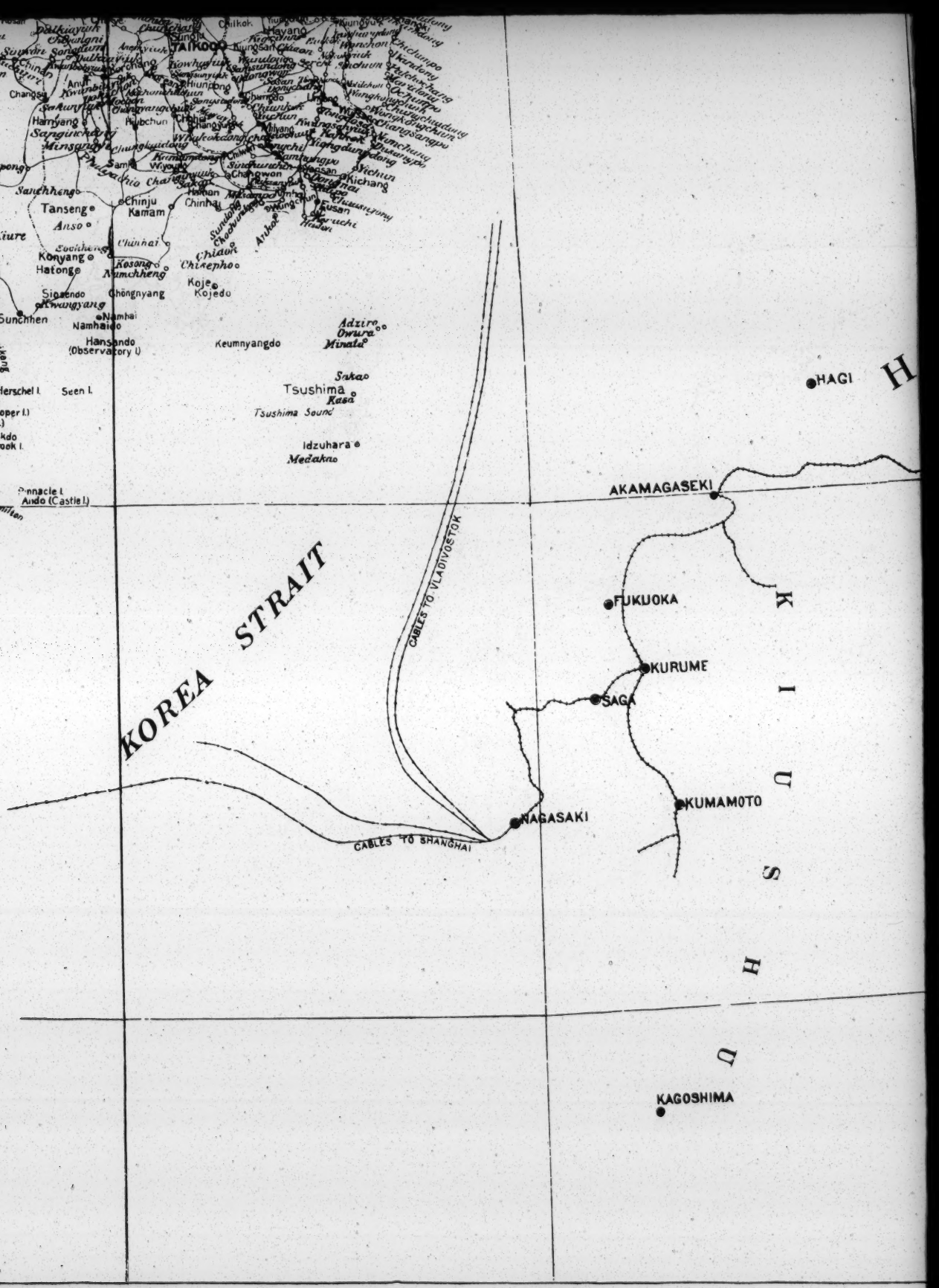
REPRINT

AUTHORITIES

Map of the Far Eastern Spheres of Russian Influence, by the Amur Society of Japan.
Map of the Southern Boundary Region of Asiatic Russia, by the Russian General Staff
British Admiralty and U.S. Hydrographic Charts

Note: Korea generally mountainous. • Wells on caravan routes in Desert of Gobi.

124° 136° *Longitude East from Gree*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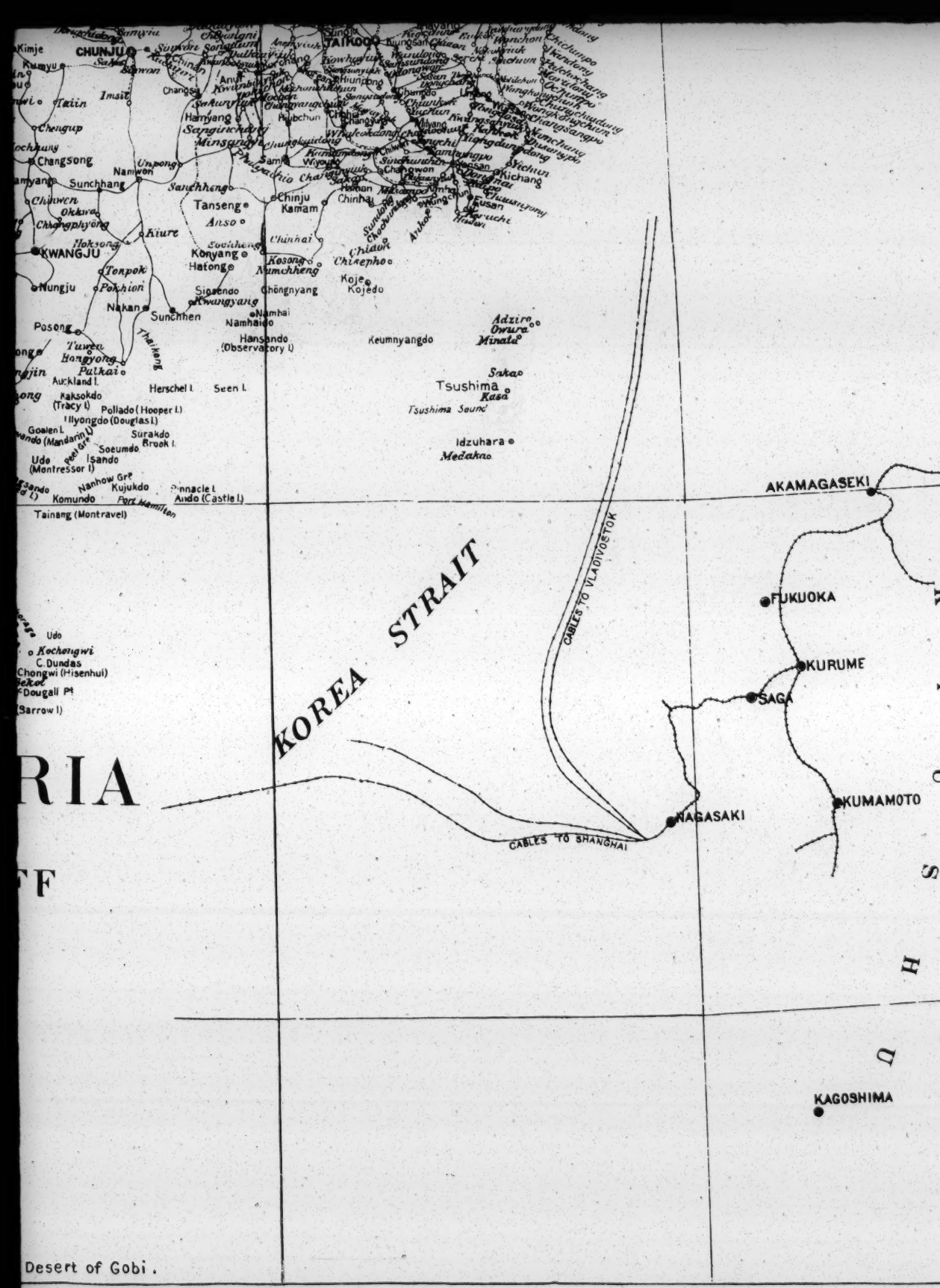
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Desert of Gobi.
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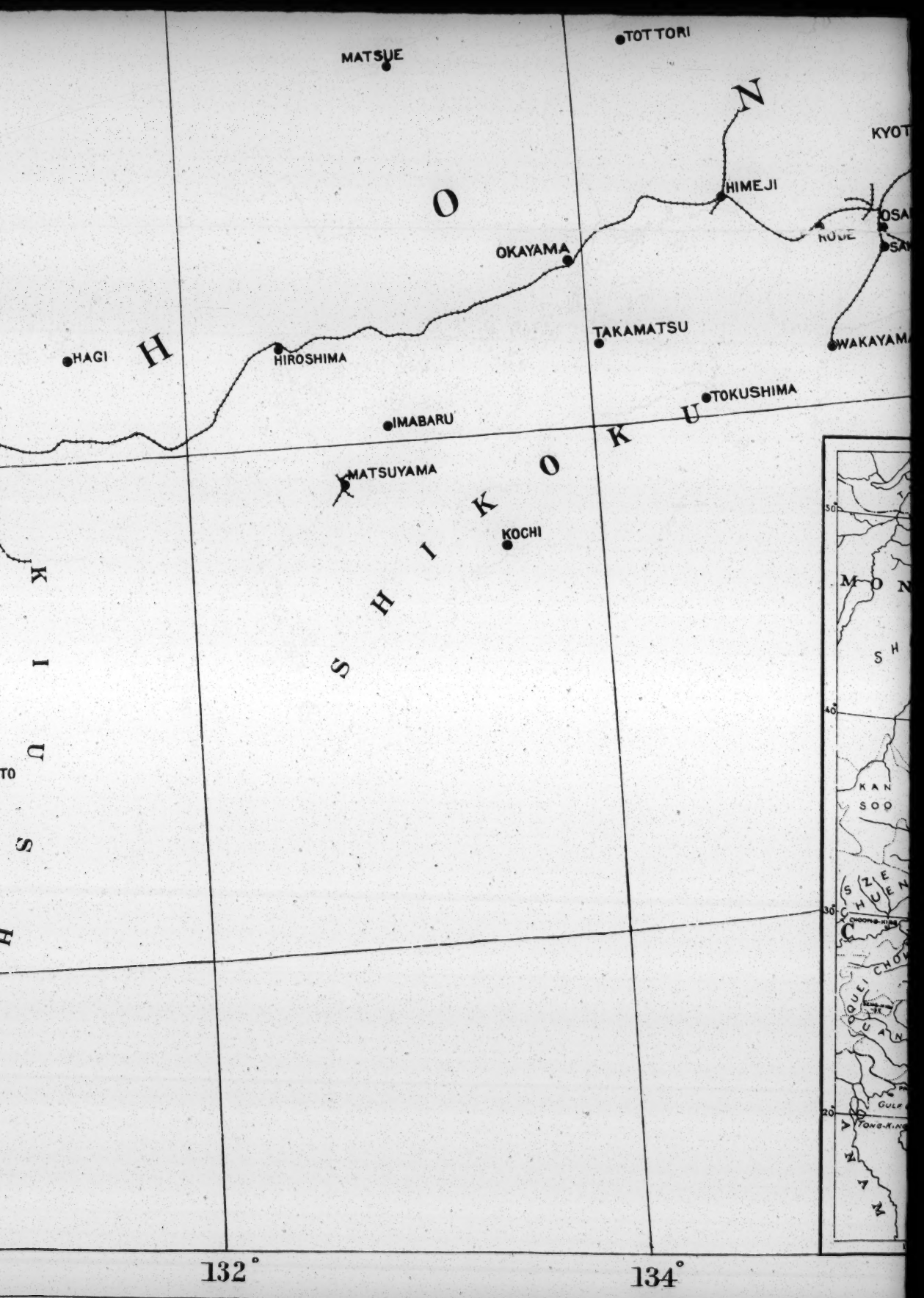
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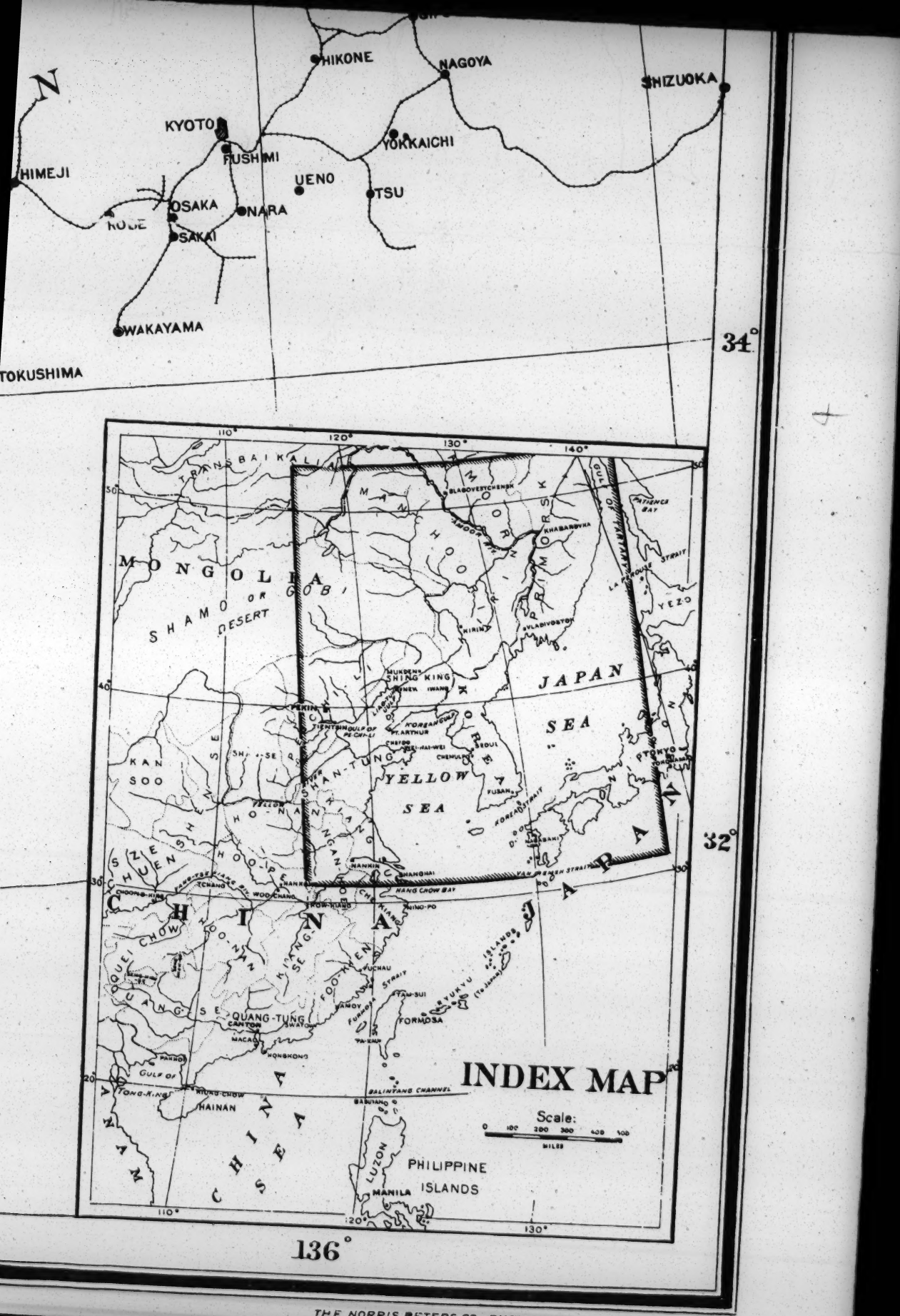


THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

VOL. XV, No. 3 WASHINGTON MARCH, 1904

THE NATIONAL GEOGRAPHIC MAGAZINE

THE PHILIPPINE ISLANDS AND THEIR PEOPLE

BY HENRY GANNETT,

CHIEF GEOGRAPHER, U. S. GEOLOGICAL SURVEY, AND ASSISTANT DIRECTOR OF THE PHILIPPINE CENSUS

THE Philippine Islands are on the other side of the earth, 10,000 miles away. Lying near the equator, between 5° and 21° north latitude, the sun passes over them in April and May on its way north, and in July and August on the return journey, while in June the shadows are short and point to the south. It is always summer, always warm, and a minimum of clothing is constantly the fashion. The trade wind blows steadily from the northeast from November to May, and the monsoon from the southwest from June to October.

The islands are numbered by thousands, but no one knows how many there are, for the known number is constantly increasing as more accurate surveys of the coast are made. They range in size from Luzon, the largest and most populous, 41,000 square miles in area, and Mindanao nearly as large, down to the myriads of little rocks just above the water at high tide. The islands of Mindoro, Samar, Leyte, Bohol, Cebu, Negros, Panay, Paragua, and Masbate exceed 1,000 square miles in area each, and there are thirty-one which exceed 100 square miles each.

The shores of these islands are fringed with coral reefs which rise abruptly and irregularly from the depths of the sea, making navigation extremely difficult and dangerous. The charts prepared in Spanish times mainly by Spanish authorities are, as a rule, incorrect and often very misleading, so that it is necessary for shipmasters to use the utmost caution in approaching the coast or entering harbors. Our Coast Survey has been at work for the past three years, but although working as rapidly as possible, consistent with accuracy, it has as yet charted but few of the harbors. The magnitude of the work may be appreciated when it is understood that the coast of the Philippine Islands is much greater in extent than the entire coast of the main body of the United States, excluding Alaska, and that the coasts are much more intricate than our

own. At present no shipmaster thinks of entering a Philippine harbor, unless it be one with which he has familiarized himself, without carefully feeling his way by sounding.

Throughout northern and central Luzon runs a range of mountains parallel to the Pacific coast and closely bordering it, known as Sierra Madre. This range rises to heights of 4,000 to 5,000 feet, the highest portion being in the north. West of this is the broad valley of Cagayan River, one of the largest streams of the island, which flows northward, entering the sea at Aparri. This valley is the principal tobacco region of the Philippines, and is fairly well settled with about 200,000 people. For two-thirds of its length the river is navigable for small boats, which carry the products to Aparri.

West of this valley is a mountain system called Caraballos Occidentalis. This system consists of a main range with many subordinate spurs and branch ranges, on the east separating branches of the Cagayan River, and on the west running down to the coast, separating from one another the streams which flow directly into China Sea. Many peaks of this range exceed 6,000 feet in height, and a few are more than 7,000 feet. The spurs from this range come down closely to the coast, leaving only a narrow strip of cultivable land along the shore.

West of the Sierra Madre, in central Luzon, is a great depression or valley extending from Lingayan Gulf southward through Manila Bay and the Laguna de Bay to the highlands, separating Cavite province from Batangas. This valley has a length of nearly 150 miles, with an average breadth of at least 40 miles. Its floor is nearly level and throughout a large part of the area is raised but little above sea level. Much of it, especially near Manila Bay and Lingayan Gulf, consists of low alluvial lands but a few feet above tide, intersected by numerous bayous or estuaries. These regions are in fact delta plains formed by the Pampanga and Agno rivers. Manila Bay is a part of this depression, as is also the shallow Laguna de Bay, which nowhere has a depth exceeding 20 feet. Indeed, the Laguna de Bay is so shallow that at low water the steam launches which traverse it stir up the mud from its bottom almost constantly with their screws. This lake is drained by the River Pasig to Manila Bay.

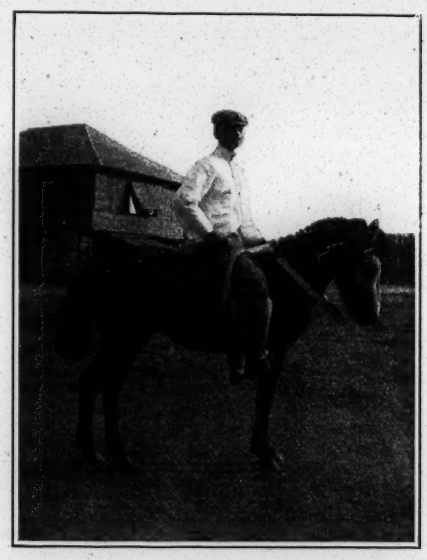


Photo by Gannett

An Ilocano Boy on One of the Small and Wiry Filipino Ponies

This great valley is the most densely settled part of the Philippines, containing nearly one-fourth of the civilized people of the islands.

West of this valley rises the Zambales Range, which, with the Mariveles peaks at the southern end, forms the backbone of the Zambalan Peninsula.

South of this great valley of central Luzon, in Batangas Province, is Lake Taal, which occupies the crater of an enormous extinct volcano, whose rim

TAGÁLOG GIRL SELLING MANGOES IN MANILA, LUZÓN.

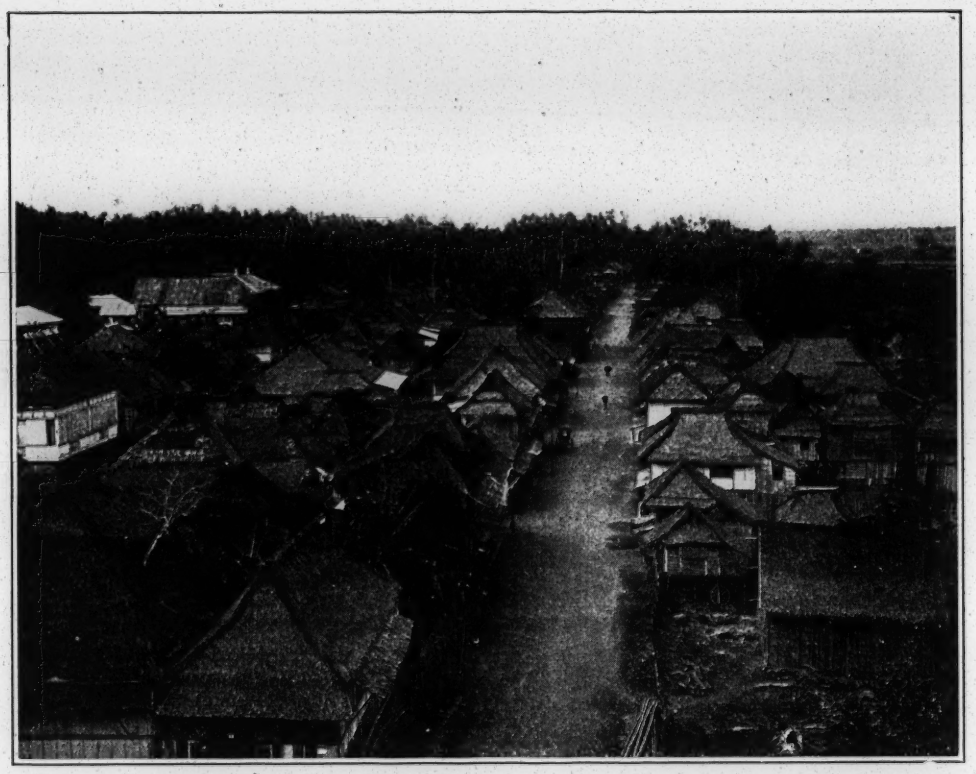


Photo by Gannett

Boac, from the Walled Church

is strongly marked on all sides except on the southwest, where a small stream breaks through and drains the lake into China Sea. An active volcano rises as an island from the middle of the lake to the height of a thousand feet.

In the southern part of central Luzon are numerous volcanoes, most of them extinct. Southeastern Luzon has a very irregular outline and contains a number of short ranges and mountains of no great height. The greater elevations of this part of the island consist of active or extinct volcanoes. Of the former the most notable is the beautiful and symmetrical cone of Mayon, which rises from the shores of Albay Gulf to the height of 8,000 feet. This has been in eruption several times within the historic period and has done great damage to native towns and villages situated about its base. Another fine volcano, not now active, is Mount Isarog, which rises over 6,000 feet above the town of Nueva Caceras.

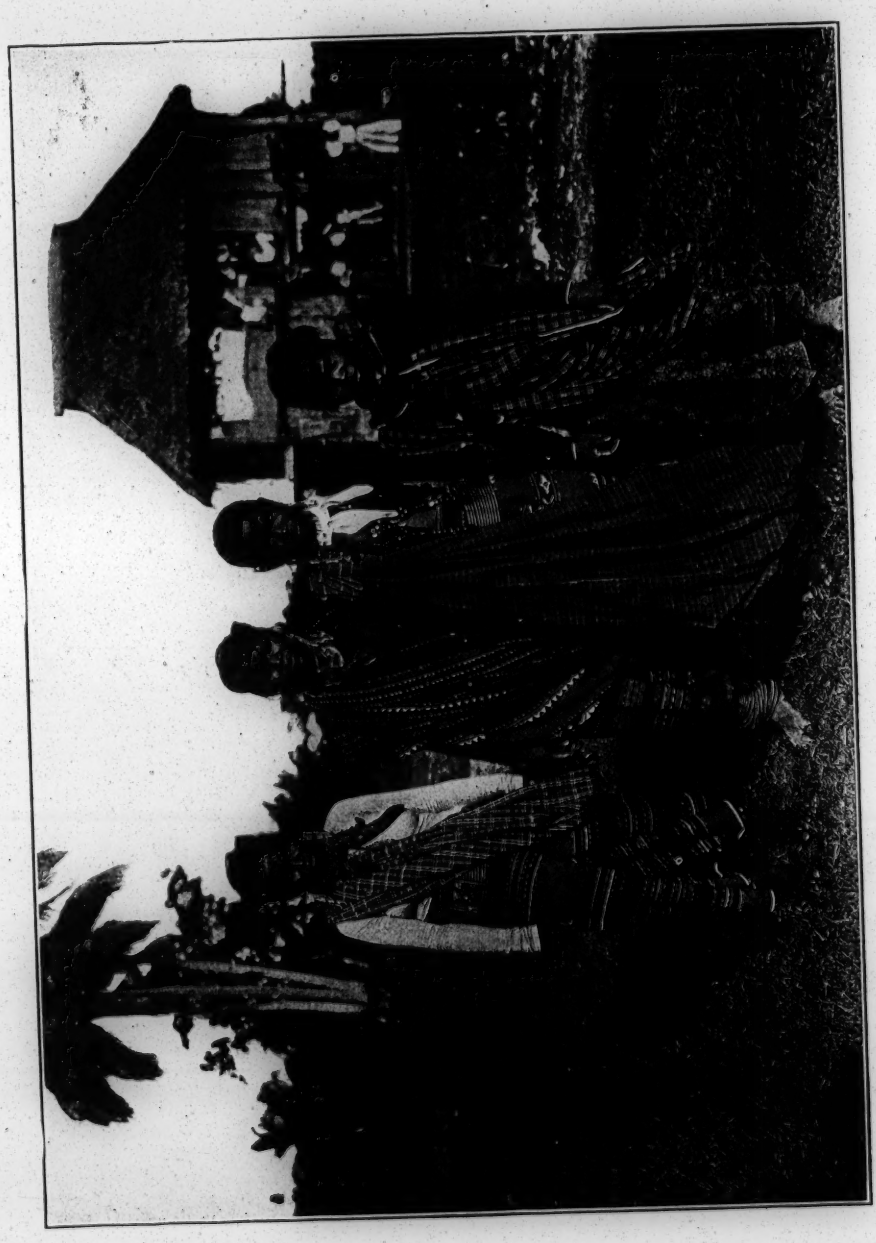
The island of Mindoro is little known except along the coast, as settlement has not penetrated the interior and few explorers have been far inland. It was crossed last spring at its widest part by Captain Offley, the governor of the province. The main topographic feature of the island is a range of mountains running from the northwest corner southeastward and then southward to the southern point, with broad spurs

Photo by Gannett

Igorrote Packers on the Road to Benguet

extending to the coast on either side. Its highest summit, Mount Halcon, has an altitude exceeding 8,000 feet.

The surface of Samar, the most eastern of the Visayan Islands, is exceedingly broken, but nowhere rises to a great elevation. Probably no summit of more than 2,000 feet in height is to be found on the island. The island of Leyte has a central range extending the length of the island from north to south, with a few summits exceeding 3,000 feet. Bohol, also of the Visayan group, is nowhere high, although most of the island is hilly. Cebu is characterized by a continuous range running from the northern to the southern end of the island, the greatest elevation, on the broadest part of the island, not exceeding 2,300 feet. The Island of Negros has a range running throughout its length, but without great elevation, excepting in the volcano Canlaon or Malaspina, which is said to have an altitude of more than 8,000 feet. Panay, the last of the large islands of the Visayan group, is dominated by a range of mountains extending from the northwest to the southwest point of the island, not far from the coast. This range, which furnishes the east boundary of the Province of Antique, has many summits exceeding 6,000 feet. From a point near the middle of this range there extends a subordinate range, which, running east and northeast, separates the provinces of Capiz and Iloilo.



TIRURAY DANCERS.

Photo by Gannett

Outskirts of Cotabato

The long, narrow island of Paragua has a mountain range extending its length from northeast to southwest, with peaks ranging from five to six thousand feet in altitude.

Of the great island of Mindanao most of the information we have comes from the explorations of the Jesuit fathers, who, in Spanish days, traversed it widely. It is known that along the Pacific coast of this island extends a range quite continuously from Bilan Point southward to Point San Agustin. West of this lies the broad valley of the Agusan River, peopled by a few Christians and many wild people. On the west side of this valley rises a succession of ranges trending nearly north and south, extending, with some breaks, down the west side to the Gulf of Davao, and separating it from the broad, fertile valley of the Cotabato River. This river heads north of the center of the island and flows, first, nearly south into a number of shallow lakes. These lakes outflow to the northwestward by a great river, still known as the Cotabato, which has built up a delta on the shores of Celebes Sea. Another range, trending northwest and southeast, separates this valley from the coast. In the interior of the island is a curious lake, Lanao. It has a length of twenty miles nearly north and south and an average breadth of ten or twelve miles. Its outlet is northwest to Iligan Bay. Its surface lies at an altitude above the sea of 2,200 feet, and the land rises abruptly from it on all sides to several hundred feet, that on the south being 800 feet above the surface of the water. Around this lake are grouped in villages 75,000 Moros, the largest and probably the densest settlement of these people in the archipelago. From this lake there runs, first westward and then southwestward, down the

peninsula of Zamboanga a range of mountains which terminates above the town of Zamboanga at the end of the peninsula.

These in brief are the leading topographic features of the larger islands. Summarizing, it may be said that the islands are almost everywhere mountainous and densely clothed in tropical vegetation. They are probably as beautiful islands as exist upon the globe, and

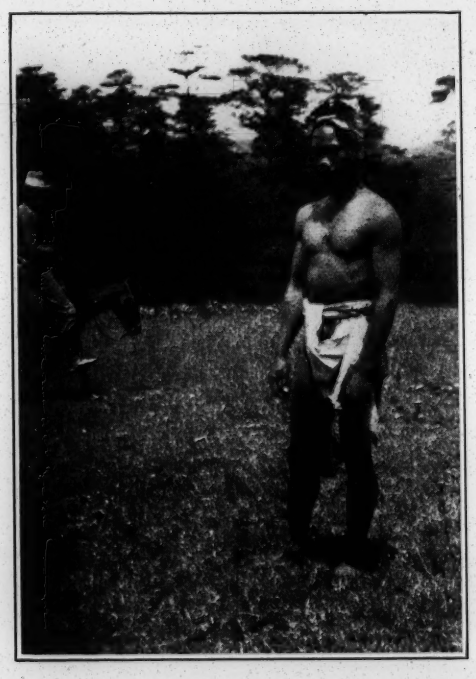


Photo by Gannett

An Igorrote

their possibilities under civilization and careful and intelligent cultivation are almost infinite.

THE CLIMATE

The temperature in the archipelago is at all times high, the mean annual temperature being throughout not far from 80° F., but, at least in the coast regions, is never excessive and is without any great variation during the year or during the day. It rises a few degrees only above the mean of the year in the spring and early summer months, and falls a few degrees lower than that average in the winter months. The annual succession of the temperature is pretty well shown by the thermometric record at Manila, where there is a range in the monthly mean temperatures of the year of only 7°—*i. e.*, from 77° in January to 84° in May. There is no extreme of heat. Temperatures of 100° are almost unknown, having occurred only twice in sixteen years, but for months the maximum temperature of the day may be above 90°. The lowest temperature on record is 60°, showing an extreme range in sixteen years of but 40°.

Now, to show what these figures mean, compare them with similar figures for the city of Washington. The highest temperature on record there is 104°, which is 4° above the highest in Manila. The lowest temperature ever suffered in Washington is —14°, not less than 74° lower than the lowest at Manila. The extreme range of temperature in Washington is 118° and in Manila 40°. The range of monthly mean temperatures in Washington is 46°—*i. e.*, the mean temperature of July is 46° higher than that of January, while in Manila the monthly mean range is only 7°.

There is no part of the year when clothing need be worn for protection against cold. White cotton suits are at all times in season, for the temperature is always above the perspiration point.

The diurnal range of temperature at points near the seacoast is slight, rarely exceeding 15°, while the average for the year is only 11°. The uniformity of temperature in the archipelago is, of course, due to its insular character, giving it a sea climate.

The relative humidity of the atmosphere is everywhere and at all times great, being commonly at least 75 per

TREE HOUSE OF THE GADDANES, NEAR ILAGAN, ISABELA, LUZÓN.

cent, while at certain seasons the air is practically saturated with moisture much of the time.

THE WINDS AND TYPHOONS

The wind system of the archipelago is simple. From November to June the sea breeze, produced by the change in the relative temperatures of the ocean and the land. In the winter, the sea being the warmer, the wind blows from the land, and thus here coincides with and reinforces the northeast trades. In the summer the land is hotter and the wind,

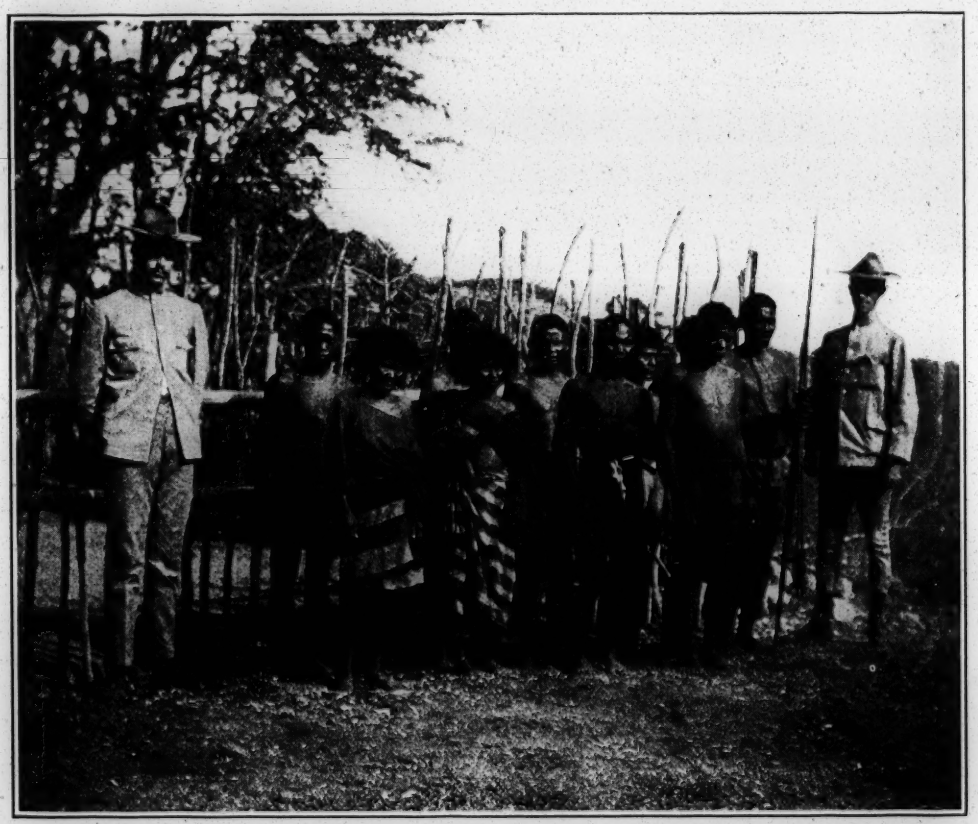


Photo by Gannett

A Group of Pigmy Negritos with Two Americans of Average Size

trade wind blows continuously from easterly quarters. With the beginning of July the southwest monsoon begins and blows continuously until October, except as it may be interrupted by those storms known as typhoons, or, in the Tagalog language, "baguios." The monsoon is simply an annual land and setting toward it, forms the southwest monsoon.

Typhoons are whirling storms which commonly originate in the Pacific, east of the Philippines, and take a westward course, turning north and finally northeast and passing off into the north Pacific. Most of them cross the Philip-

pines on their westward course and turn north in the China Sea.

Their origin is probably in the region where the trade wind, blowing constantly from the eastward, meets the southwest monsoon. It may be by conflict between these two opposing air currents in this region that the whirl is set

ter, and violence the so-called West India hurricanes. They are of frequent occurrence, often following one another closely, at intervals of but a few days, and many of them have been very violent and destructive.

The rainfall of the archipelago closely follows the winds. The general *modus*

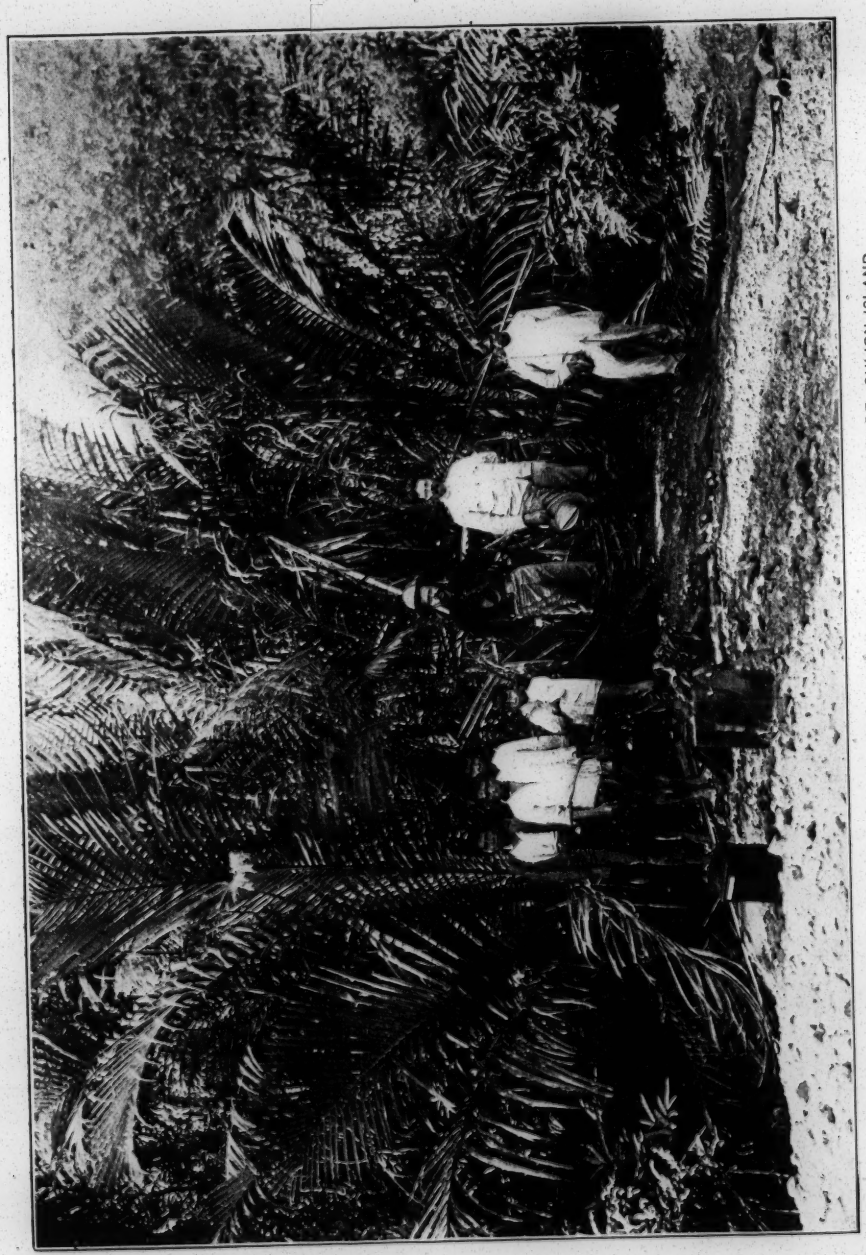
Photo by Gannett

Nipa House Under Construction

up. At first this whirl travels in the course of the trades, as they are the dominant wind, but as it goes westward the influence of the monsoon becomes relatively the stronger, and the typhoon yields to it and passes off in its direction to the northeast. Hence the monsoon season is the season of typhoons.

Typhoons resemble in course, character, and violence the so-called West India hurricanes. They are of frequent occurrence, often following one another closely, at intervals of but a few days, and many of them have been very violent and destructive.

The rainfall of the archipelago closely follows the winds. The general *modus operandi* of rain-making is very simple and scarcely needs repetition here. Air coming off the sea is always and everywhere practically saturated with moisture. On reaching the land, if the latter is colder than the sea, and therefore colder than the air currents, which have the temperature of the sea, it is chilled, and hence, unable to hold in solution so



NIPA PALM, FROM WHICH ROOFS AND SIDES OF HOUSES ARE MADE, CULION ISLAND.

much moisture, deposits a part of it as rain. This is especially the case if these air currents are forced up over mountain ranges, since in rising they are necessarily chilled.

The Philippine Islands are mountainous, and such air currents coming to them from any direction are forced upward to pass over the mountains into cooler regions. Hence there is a heavy precipitation on the windward side of the islands, while the leeward side, being under descending air currents already partly deprived of their moisture, receive little or no rain. The alternating winds of the Philippines, the trades and the monsoons, thus produce alternating wet and dry seasons.

On the east coasts of Luzon, Samar, and Mindanao, which face the Pacific, the winter and spring, when the trades prevail, is the rainy season. In most other parts of the archipelago it is the dry season. On the other hand, in the monsoon season, when the wind is from the southwest, the other, the westward-facing coasts, have a wet season, while the Pacific coasts are comparatively dry, or, at least, get much less rain. Thus at Manila there is practically no rain from November to June, while during the rest of the year the rainfall is heavy. There are places in southern Luzon and Samar where, owing to the fact that the islands are low, the air currents pass over them without losing much of their moisture, and hence carry it westward to be deposited elsewhere. Thus at localities in the Visayan Islands, west of these eastern coasts, the rainfall is abundant even in the winter season.

The total amount of rainfall ranges in different parts of the archipelago from 40 to more than 100 inches, the precipitation being greatest on the Pacific coast. At Manila it is about 60 inches, somewhat more than in the city of Washington, and of this four-fifths fall in the rainy season, between the first of July and the end of October. In these months rain falls nearly every day. The streets are flooded, the air is saturated with moisture, and things are covered with mould.

THE PEOPLE

All the larger islands are populated more or less fully, and mainly by little brown people of the Malay race. The only people not of Malay origin are the Chinese, Japanese, Americans, and Europeans, and the Negritos, the original inhabitants, who are found in small numbers in the mountains of the interior of Luzon and two or three other islands.

These brown people, both civilized and uncivilized, are separated into many tribes, and they are of all grades and degrees of civilization, ranging from cultivated gentlemen educated in the universities of Europe, to the wildest of head-hunters and the most timid of tree-dwellers. Among them, found almost entirely in the cities and mainly in Manila, are some three score thousand Chinese, and a small sprinkling of Japanese and East Indians. The Chinese carry on most of the business and do most of the hard manual labor of the cities. The ruling element of the whole consists of a small nucleus of some ten or twelve thousand Americans.

A classification of the natives by tribes is a rough index to the degree of civilization. The Tagalogs, occupying, in the main, central Luzon, are the most powerful and highly civilized; the Ilocanos in northwestern Luzon, the Bicols in the southern part of the same island, and the Visayans in the central islands of Samar, Leyte, Cebu, Bohol, and Panay, follow them closely in intelligence and civilization, as do also the smaller tribes of Pangasinan, Pampanga, Cagayan, and Zambales, in Luzon. These are the eight civilized tribes. Of these, the Visayans are far the most numerous, numbering over 3,000,000 and forming 45 per cent of all. Next

are the Tagalogs, who number 1,600,000, or 24 per cent, or nearly one-fourth. The Bicols form 8 per cent, the Ilocanos and Pangasinans 7 per cent each, the Pampangans 4 per cent, the Cagayanes 3 per cent, and the Zambalans only 1 per cent. These tribes live, in the main, on or near the coast or on navigable rivers. While not exactly a seafaring people, they spend much time upon the water, and a large proportion are fishermen. They travel mainly by boat, and the river transportation, by means of cascoes or large native cargo boats, is in their hands.

With the exception of the Moros, the wild tribes have been crowded back from the coast into the interior by the more civilized peoples, and are now found mainly in the mountains. The Moros occupy the coasts of southern Mindanao, and similarly have driven the wilder peoples into the interior of that great island. The Moros occupy also the whole of the Basilan, Jolo, Tapul, and Tawi-Tawi groups of islands.

Of the wild tribes the Igorrotes of the mountains of Luzon and the Moros of the southern islands are the largest and most powerful. Besides these, there are many smaller tribes, especially in Mindanao, who are even wilder. The lowest of all the people of the islands are the Negritos, who, though widely scattered over the archipelago, are found mainly in the mountains of northern Luzon, and number only 25,000. Of all these wild tribes, the Igorrotes are probably the most promising. Physically they are strong, sturdy mountaineers, and are bright, honest, and industrious. While many of them are still hunting heads in inter-village feuds in the remote region known as Bontoc, others are earning their livelihood as packers, miners, and farmers. All the baggage, furniture, and supplies of all kinds for the infantile mountain capital in Benguet province are packed on the backs of Igorrotes a distance of 25 miles and to an altitude of 5,000 feet. They number probably about 175,000.

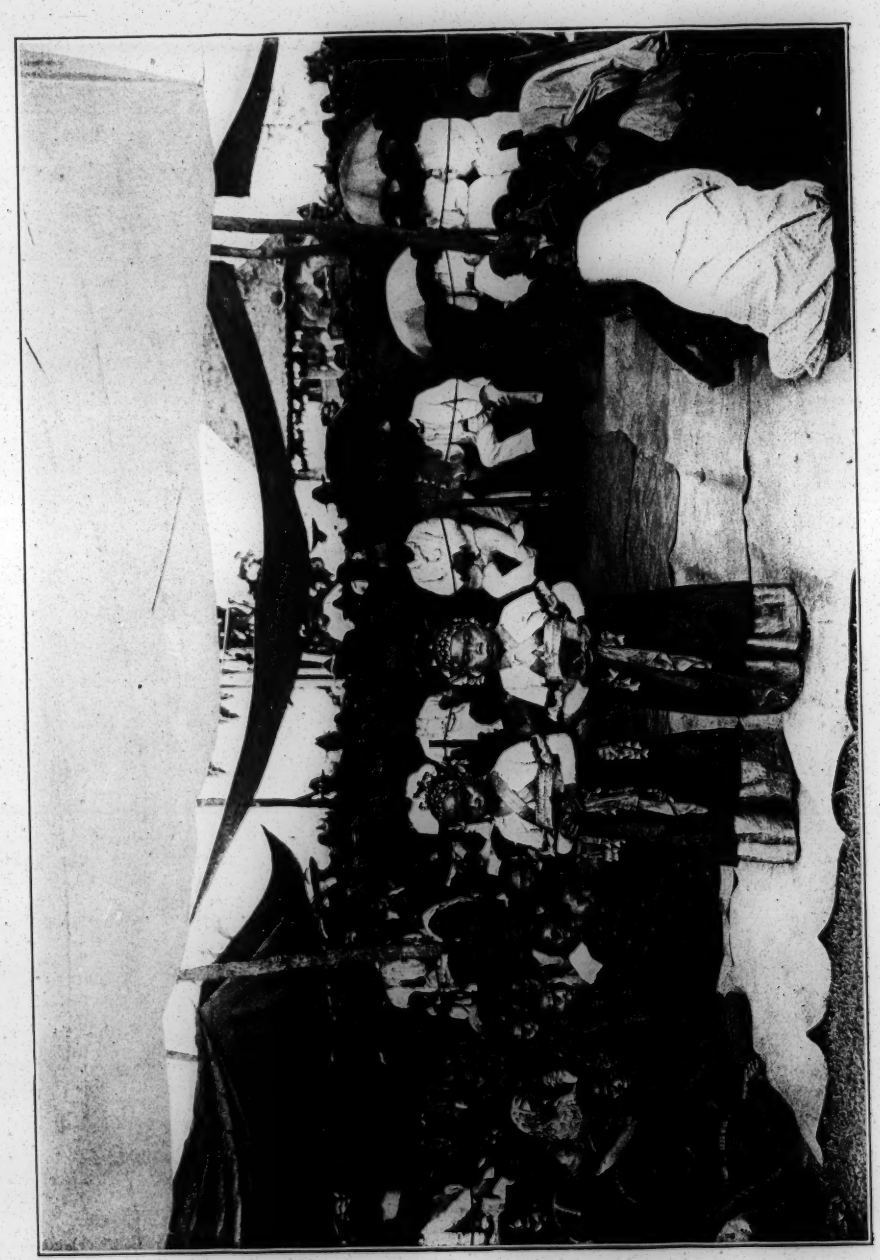
The Moros are a very different people. They number about 275,000 and inhabit southern Mindanao and the Basilan, Jolo, Tapul, and Tawi-Tawi Island groups southwest of Mindanao. They are nominally Mohammedans, though their religion is not such as to interfere with their chosen modes of life. They were the Malay pirates of whom we read, who were the scourge of the Philippine coasts, raiding the towns, killing the men, and carrying off the women and children. Fierce and fearless in war, the Spaniards made little headway against them, and when Spain turned over the islands to us she left a prospective lot of trouble for us in this people; but by wisdom, patience, and a little sharp fighting we have established our supremacy, and there is peace in Moro land.

Each tribe has its own language, and even different parts of the same tribe may speak dialects which differ greatly from one another. Thus the Visayans of Cebu cannot easily communicate with the Visayans of Leyte or Samar; hence there is great confusion of tongues. Only a small proportion of the Filipino people use the Spanish language; indeed, less than 10 per cent. There are thousands of villages in which no one can be found who speaks Spanish. The Spanish spoken by the common people is by no means pure Castilian, but is commonly known in the islands as Caribao Spanish. English is taught in all the schools, and the younger generation is making rapid progress in it. Everywhere the Filipino shows a desire to learn the language and a great pride in the progress made.

This people numbers 7,600,000, scattered over 115,000 square miles, in 14,000 cities and villages. There are very few rural inhabitants. The people are gregarious, probably 99 out of every 100 living in cities or villages,

Carabao in Their Native Element

[Photo by Gannett



MORO DANCING GIRLS.

around which are scattered their plots of cultivated ground. Such a scattered distribution of the farming population as is seen in the United States is almost unknown in these islands.

GOVERNMENT

The islands are organized into forty civil provinces, the city of Manila, and the semi-military, semi-civil province of Mindanao—forty-two in all. The civil provinces are divided into nearly one thousand pueblos, which resemble in certain ways our New England towns. These are in turn subdivided into nearly fourteen thousand barrios or villages.

The chief executive officer is the civil governor, who is aided by four Americans, who serve as executive heads of departments, with the title of secretary. These five, with three Filipinos, form the civil commission, which is the legislative body. Within these four departments are numerous bureaus, which, with two exceptions, have Americans at their heads. The judiciary is mainly composed of Americans, but contains several able Filipino judges.

The officers of the provinces are governors, most of whom are Filipinos, and treasurers and supervisors, all of whom are Americans, and secretaries, all of whom are Filipinos. The governor, treasurer, and supervisor of each province form the governing board, which decides all matters of importance concerning the province. The chief officers of the pueblos are the presidentes, all of whom are Filipinos. The presidentes of the pueblos and the governors of provinces are elected by the qualified voters. The civil governor has the right to suspend or remove any officer, whether elected or appointed, and to fill the vacancy thus created.

Throughout, in the general government, provincial government, and pueblo government, the minor offices and the clerical positions are in the main filled by Filipinos, who make excellent clerks.

The city of Manila is governed by a commission appointed by the civil governor, much as the District of Columbia is governed.

INDUSTRIES

Farming is carried on extensively, but by primitive methods and with primitive tools. The plows and harrows are of wood and are drawn by carabao .

The agricultural products are very numerous, but most of them are of little importance. The chief products are tobacco, which is grown mainly in northern Luzon, and especially in the valley of Cagayan River, in the northeastern part of that island; abaca, or Philippine hemp, a species of banana palm, grown in southern Luzon, the Visayan Islands, and northern Mindanao, or wherever the rain is well distributed throughout the year; sugar, produced in various parts of the islands, but principally on Negros and Panay; rice, raised everywhere, but not in sufficient quantity to supply the people; cocoanuts, which are found everywhere near the coast; cacao and coffee. Besides these, bananas and mangoes are produced in abundance and are excellent; oranges and lemons are very few, and these few are wretched travesties of the California fruit. Indeed, it seems strange that, with a soil and climate that will produce almost everything, vegetables and fruits are so few and so poor. Fortunes await American market gardeners in the suburbs of Manila.

In most parts of the islands the lands are subdivided to an enormous extent, and the cultivated tracts are very small. A few thousand square feet, the area of an ordinary city house lot, are sufficient to provide the Tao and his family with all that they require—a few bananas, a little rice, and camotes or sweet potatoes. Their wants are limited and easily supplied. Furthermore, nearly everybody owns his place, or at least claims to own it. There are, however, many people holding land as squatters.

The Filipinos are great fishermen, and most of their flesh diet consists of fish. For their capture they use both traps and nets.

The manufactures of the islands are mainly carried on by hand in the homes of the people. Thus are made on hand looms by the women the beautiful and delicate fabrics known as Sinamay, Jusi, and Pina. Thus are made the beautiful hats which one day may become as fashionable and highly prized as the well-known Panama hat. Most of the lumber is sawn by hand with whipsaws.

In Manila, however, are some large factories, especially of cigars. There are also several lumber mills, a brewery, and numerous other establishments.

MEANS OF TRAVEL

The transportation of the islands is mainly by steamers on the sea, coastwise, and by cascoes along the numerous short rivers and bayous. The traffic down the Pasig from the Laguna de Bay, that great lake in the interior of Luzon, surrounded by populous towns, is very great and is carried on these cargo boats. These are homes as well as cargo-carriers, for the boatmen live on them with their families. On the boats of all kinds in and about Manila about 16,000 people live constantly.

Travel among the islands is mostly by sea. There are several lines of native boats which carry passengers and freight between Manila and the provinces, and the civil government possesses a number of boats known as coast-guard boats, which it uses for transportation of mail and passengers and its own freight. These coast-guard boats are very comfortable, although their accommodations are limited. The native boats are, however, extremely disagreeable for white people, and are to be avoided if possible.

Travel in the interior is much more difficult. The only railroad in the islands runs northward from Manila to Dagupan, a distance of 120 miles. It is a narrow-gauge road, owned by an English company, and is run at the dizzying rate of 15 miles an hour for express trains, and all its appointments are in proportion. The native travel on this road is enormous and the freight movement is large.

A few good roads were built in the islands under Spanish régime, the longest of which runs from Dagupan northward along the coast to the north end of Luzon. Most of the bridges on this road are temporary affairs, built of bamboo, which go out with each wet season, and many of them have not in recent years been replaced. The road also, which originally was well constructed of macadam, is now badly washed in places. This is probably a sample of the condition of the best roads in the islands. Aside from a few such roads, the ways consist mostly of trails impassable to wheeled vehicles.

For passenger travel the common animal is the Filipino pony, which is a little larger than a Shetland pony, is rather stockily built, but well shaped and hardy, tough, free, and fast. They are used both for riding and driving and make excellent saddle animals.

The draft animal is the carabao, or water buffalo, much like an ox, with slow, ponderous movements, dark dun, almost black in color, the hide lightly covered with hair, and generally equipped with large, heavy horns. This animal is used not only in the country in all farming operations, but largely in the city for draft purposes. The weakness of the animal is his constitutional inability to go long without a bath, and when left to himself he is almost amphibious, spending a large part of his time in water. A few hours' work in the sun without a bath is often fatal. The carabao is a Filipino animal in the sense that it recognizes only the Filipino as its master. It distinguishes a white man by his odor, and in many cases is excited by his presence. If at

all viciously inclined, he is dangerous of approach, and instances have been known of his attacking and killing white men. He is to the Filipino what the mule is to the plantation negro. They understand one another and get on together excellently.

HOTELS AND HOUSES

The Philippine Islands are practically without hotels or any other public stopping place for travelers. True, there are hotels in Manila and in two or three provincial capitals, but elsewhere the traveler is obliged to throw himself upon the hospitality of the provincial officers, the presidente of a pueblo or the teniente of a barrio. If he hesitates to do this, he can quarter himself upon the constabulary, if there is a constabulary post, where he may find a cot upon which to spread his blankets, and probably will get a meal.

The houses of the Filipinos differ with their social condition and with the different tribes and in different parts of the islands, but they may be generally classified as those built of nipa, or its equivalent, and those of more durable material, such as wood, brick, or stone.

All the Filipino houses, wherever they are and whatever the material, are raised above the ground, generally to the height of a full story. The space beneath is commonly utilized as a stable for ponies or for a chicken house. The more durable houses are built of stone, brick, or wood, and are large and roomy, with plenty of window space. They are commonly entered from beneath by a broad, winding staircase, which lands the visitor in the middle of a large hall running the full length of the house. This hall is 20 feet or more in width and lighted by windows at the ends. One end of it is commonly the dining-room and the other the sitting-room, while on either side of it, and communicating with it by doors, are the bedrooms. The furniture is scanty and simple, consisting generally of a round table and easy, cane-seat chairs. The walls are double, the spaces between them forming galleries four or five feet in width, these galleries being entered through broad openings commonly curtained. In the outer wall are windows and blinds running independently of one another in grooves. The windows are very commonly glazed in small panes, three or four inches square, of shell instead of glass, which are sufficient to admit light, but nothing can be seen through them. At night everything is shut tight, windows and blinds, either from fear of night air or of spirits, which stalk abroad after sunset. The floors of these houses are generally made of the native hardwoods, are often very beautiful, and are a great source of pride to the possessor, who keeps them well oiled and waxed.

The roofs of this class of houses are of tiles, tin, or, among the poorer ones, of thatch, nipa, or cogan grass.

The houses classed as nipa are made of several different kinds of material, but in the main of bamboo and nipa palm. The frame, which is commonly very simple, is built of bamboo poles; the walls are made of a coarse mat woven of nipa, while the roof is thatched with the same material, nipa being a palm which is found abundantly in swampy places. Sometimes the sides, as well as the roof, are thatched with nipa instead of being made with this coarse mat. Where nipa can not be had, cogan, a coarse grass, is often used. The windows are mere openings, closed by shutters of nipa mat or of thatch. The floors are open work, made of strips of small bamboo tied down to the floor beams. Probably nine-tenths of the houses in the islands are of nipa, or some equivalent plant, built upon much the same plan as above. The erection of a nipa house is a very simple matter, requiring only a few days' labor and costing only one or two hundred dollars.

Some months ago a square half mile of the Tondo district of Manila, consisting almost entirely of nipa huts, was burned. A month later most of them were restored. The nipa house is entered, not by a stairway, but by a ladder from the outside. The rooms are commonly small and the people live very closely. The houses are, of course, only one story in height. Indeed, throughout the islands the buildings, as a rule, are low, most of the residences containing only one story, while business buildings rarely rise to more than three.

FOOD AND DRINK

In the Philippine Islands no white man drinks raw water—that is, unless he courts cholera or dysentery. Whenever possible he boils it or distills it, preferably the latter. In Manila is a large distilling plant, carried on by the government for the use of its civil employés. The natives are by no means as careful, and most of them drink the water as nature provides it and attempt to avert cholera by prayers and charms.

The native lives principally upon rice and fish, with a little fruit and vegetables. This low diet is by no means satisfactory to the Europeans and Americans in the islands, which do not produce at present the kinds of food which they demand; consequently the table of the American is supplied mostly with frozen meat, brought from Australia or the States, and with canned vegetables and fruits. Fresh milk, except from caribao, is practically unknown in the islands, there being only half a dozen milch cows in Manila, and the necessity is supplied by condensed milk and canned cream. The islands produce very few fruits which are palatable to Americans.

Since the Spanish times the prices of most commodities and the wages of most kinds of labor have doubled and trebled, not only in Manila, but in most parts of the Philippines, and rents, especially in Manila, have soared skyward. Houses which five years ago were rented for 25 pesos a month now cost two or three times as many dollars. A group of houses recently built of nipa, containing four rooms each, were rented long before their completion at the rate of $36 gold per month, the annual rent of the house amounting to more than twice the cost of the structure.

PHILIPPINE CURRENCY

Until recently the money in use in the islands was what is called Mex., the unit of which was the Mexican dollar or peso, which had varying values in gold, ranging from 40 to 50 cents. Heretofore, during American occupation, American money has been used to some extent, and the natives have thoroughly learned the distinction between the two and their relative values. Until the introduction of the Conant dollar, Mex. was the common medium of exchange, and a somewhat bulky and heavy one. A lady starting on a shopping expedition found it necessary to place in her carriage a bag full of pesos. Fifty or a hundred dollars in pesos, the equivalent of $20 or $40 gold, made about as heavy a load as she would care to carry from the carriage into the shop. Often upon returning from a shopping expedition she brought back less weight with her than she carried. Very little paper money was in use. One would occasionally receive bills on the Hongkong and Shanghai bank, or on a Filipino bank, but they were generally so filthy that the heavy silver was preferable. While the average Filipino is reputed to be somewhat light-fingered, few people even take the trouble to lock up their money, for it is commonly believed that Mex. is too nearly worthless to be stolen.

At the time of the introduction of the Conant dollar, American money was well known to the natives, not only in Manila, but throughout the islands generally. Even the newsboys and boot-

blacks knew the difference between Mex. and American money, and made change accordingly. An American dime bought two newspapers, while a Mexican ten-cent piece bought but one.

PRESENT PEACE IN THE ISLANDS

The question has been frequently asked, "Is the war in the Philippines over?" This would seem to indicate a great misapprehension concerning the situation in our Pacific islands. Many people seem to suppose that outside of a few garrisoned posts, it is dangerous for white people to travel about. Nothing could be farther from the truth. The fact is that in the portion of the islands inhabited by the civilized peoples—*i. e.*, three-fourths of their area at least—a white man is as safe in traveling or living as in Arizona or Colorado or Montana. He may go about with perfect freedom. Not only that, but the people are ready and anxious to show him hospitality. The Filipino from whom he asks a night's lodging feels highly honored and gives him of his best. The men salute him as he passes, and the children cry "Buenas dias," and are very proud if their salutation is returned. Among the wild people, the situation is much the same, although here it is better to send notice of one's coming in advance and to bear some sort of credentials. With these precautions, there is no more danger than in traveling on the reserve of a tribe of friendly Indians.

To illustrate the situation, the work of the provincial treasurers is instanced. Each of these (they are all Americans) is required by his business to visit every pueblo of his province, and such a trip may involve hundreds of miles of travel overland on horseback or by carromata. So far as known, no treasurer has ever been molested, although he often carries much money about him. The provincial supervisors, also Americans, are obliged to travel everywhere, as are many other civil officers of the government. At the present time, Americans are all over the islands on one errand or another, public or private. No one thinks of danger or provides against it beyond, perhaps, putting a revolver in his pocket.

There are ladrones still at large, but only a few, nearly all having been killed or are in prison serving long sentences, and the islands are now practically free from ladronism. Ladrones, or, as they were formerly called, tusilanes, are simply robbers. The Filipinos have always had them, and they were just as abundant and troublesome in the days of Spanish domination as they have been since the flag of Spain came down. They are often organized into gangs, and their common plan of operation is to shoot up a village at night, rob the houses, and perhaps hold some of the people for ransom. Their operations are always directed against their own people. They never interfere with Americans. The big, husky, efficient American soldier has taught even the worst of them that it won't pay. Two or three Americans have been killed in fights with ladrones, but not one, so far as known, has been intentionally interfered with.

Ladronism reached its maximum early last spring, when a dozen provinces, some of them near Manila, were infested with them. The native constabulary, with white officers, have been most efficient in chasing them down and breaking up their bands. The troops were not called out, as they were not needed. At present there are scarcely any ladrones left, only a few in Albay Province, in southern Luzon, where they have not been pursued with as much vigor as elsewhere, but recent advices indicate that the constabulary have since destroyed their bands.

The war has been over for more than two years. The people are pacified, quiet, and well disposed. They have

the utmost respect for Americans, a respect rapidly ripening into confidence and affection. This condition has come about in spite of famine, the loss of their farm animals through rinderpest and surra, and a severe epidemic of cholera.

WILL THE ISLANDS PAY?

Another question frequently asked is, "Will possession of the islands pay us?" In the first place, it is not a question which we should even ask ourselves. The question of profit in any form should not enter into the matter. When we took the islands from Spain we assumed a duty—that of reducing them to order and of maintaining them as good neighbors to the other peoples of the earth. We might have shirked the duty, we might have abandoned them to become a Venezuela or a Haiti, or we might have turned over the work of patrolling and protecting to some other nation, such as Germany, who was eager to exploit them, or to Great Britain, who might have been induced to accept the responsibility for them. If, however, we had been weak enough to have thus shirked our responsibility, I think that every one of us would have lost self-respect, as he certainly would have lost pride in his country. It is not, therefore, a question whether the islands will pay us or not, for no one should stop to consider whether it will pay him to do what is right.

But I think they will pay us in more ways than one, and in one way at least they are paying us already—that is, as just suggested, in self-respect and in national pride. We have unhesitatingly assumed our duties and are fulfilling them. We have reduced the people to order, and have put them under civil government. In our colonial administration we have accepted the best of the English methods—and they are far the best heretofore in use—and have improved upon them from the start in many ways; first of all, by giving this people as great a measure of self-government as they can carry on. Thus far our colonial administration, although our first attempt, and therefore somewhat experimental, has proven eminently successful, and it increases one's pride in his citizenship to note the manner in which we are carrying out this somewhat difficult work.

Even in the matter of dollars and cents it is probable that the islands will ultimately pay us; not that this is a matter of importance, for when a question of duty is involved, a great nation like ours can not afford to debate cost or profit, even if it be millions or hundreds of millions of dollars. When we see our people rapidly obtaining control of the commerce of the Pacific and find our government paper money, mere promises to pay, received as readily as gold in the Far East, in China, and in Japan, we can realize what our advent in the Philippines has done already and what it is leading to. Because of our possession of the Philippines we shall become the dominant power of the Pacific, both politically and commercially.

Japan and Korea, with the surrounding seas and the adjacent coastal region of China, is the subject of a large chart, 26 x 48 inches, just published by the U. S. Hydrographic Office. The chart gives the depths of water along the coasts and is a useful supplement to the land map published by the War Department and issued as a supplement to this number of the NATIONAL GEOGRAPHIC MAGAZINE. The chart may be purchased by sending forty cents to the U. S. Hydrographic Office, Washington, D. C.

RUSSIAN DEVELOPMENT OF MANCHURIA*

By Henry B. Miller, United States Consul to Niuchwang, Manchuria

ONE of the greatest achievements in city construction that the world has ever witnessed is now going on in the heart of Manchuria.

THE BUILDING OF HARBIN

In the building of such cities as Vladivostock, Dalny, and Port Arthur, Russia has demonstrated her power and purpose on the Pacific in line with the world's conception of her character; but in the construction of this wonderful city of Harbin she is displaying an altogether different type of activity from what we are prone to attribute to her.

It is in this city, more than in all the others combined, that Russia is asserting her intentions of becoming an active industrial force in the affairs of the Orient, and her people are already giving the place the title of the Moscow of Asia.

The city is located on the Sungari River, at the point where the Manchurian branch of the Siberian Railway crosses the stream and where the Chinese Eastern branch starts south to Dalny and Port Arthur. It is about 350 miles west of Vladivostock and 600 miles north of Port Arthur. Its location is the geographical center of Manchuria, and from present prospects it is to become the commercial center as well. The city is surrounded on all sides for hundreds of miles with a rich and productive agricultural country, producing corn, wheat, oats, barley, beans, millet, hemp, tobacco, vegetables, and some fruits. Minerals and timber and great areas of grazing lands also surround it.

At present the place consists of the old town, 3 miles from the central depot, Prestin or the river town, the present commercial center, and the administration town, in close proximity to the railway station. Before the railway engineers established this as their headquarters there was no native town in this vicinity, and the entire place is therefore a Russian product.

ADMINISTRATION

It is as distinctly a Russian city as though it were located in the heart of Russia, and none but Russians and Chinese are permitted to own land, construct buildings, or engage in any permanent enterprise. The city has been created by the Russian government, under the management of the Manchurian Railway Company. The land for many miles in each direction has been secured so as to make it impossible for any foreign influence to secure a profit or foothold close to the city, and foreigners are not recognized as having any rights whatever, but are permitted there by sufferance. The chief railway engineer is the administrator of the city, and up to the present time has had complete control of everything, but in the new scheme for the government of Manchuria some form of municipal organization will be permanently established.

In 1900 the place began to assume importance as a center of railway management, and in 1901 the population had grown to 12,000 Russians; in 1902, to 20,000; by May, 1903, to 44,000, and in October, 1903, a census showed a population of 60,000, exclusive of soldiers. Of these, 400 are Japanese

* The National Geographic Magazine is enabled to publish in full this excellent account of Russian progress in Manchuria up to the close of 1903, through the courtesy of Hon. O. P. Austin, chief of the Bureau of Statistics.

and 300 of all other nationalities, including Germans, Austrians, Greeks, and Turks. All the rest are Russians. There are no Americans.

The railway and administration employés, including families, constitute 11,000 of the population. The Chinese population is about 40,000, located in a special settlement. The ratio of women to men is as follows: Japanese, 120 per cent; Russians, 44 per cent; Chinese, 1.8 per cent; average of women, 14.3 per cent.

Harbin is the center of the entire railway administration of Manchuria, and, as the Russian commercial enterprises of the Far East are under the direction of the railway company, it will also be the center of Russian industrial and commercial development. It is the headquarters of the civil courts and the chief military post and the main center of control of all the vast army of railway guards. The administration city, therefore, consists of all of the public and private buildings and shops necessary for these various departments. Residences for the employés cover the largest area of this division of this marvelous city.

The following are some of the principal buildings of the administration city;

Building.	Cost of buildings.	
	Rubles.	*Dollars.*
Administration buildings, three stories in height, having a total floor space of 3,600 square sagene (176,400 square feet), to cost when finished	1,200,000	618,000
Railway shops	2,500,000	1,287,500
Hospitals	626,000	322,390
Commercial school and girls' school	500,000	257,500
Technical school	250,000	128,750
Eight schools for teaching Russians Chinese and for teaching Chinese Russian	96,000	49,440
Club and store for employés	370,000	190,550
Hotel	163,000	83,945
Russo-Chinese bank	200,000	103,000

The total administration expenditure on the city has been 30,000,000 rubles ($15,450,000).

TRANSPORTATION

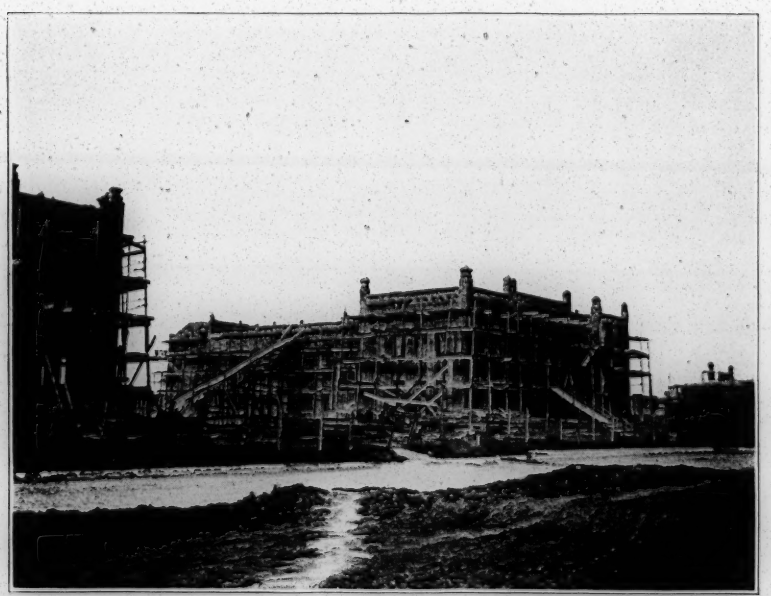
Steamers.—The Sungari River is navigable with light-draft steamers and native craft for nearly 200 miles above the city, up both branches of the river, and much traffic has already developed on these streams, especially in wheat.

From Harbin to the Amur River, during the navigating season, which begins in April and ends November 1, good-sized river steamers run daily. These steamers are well fitted with good, comfortable cabins for first, second, and third class passengers. They carry large cargoes of freight and usually tow barges loaded with freight. From Harbin to seagoing steamers at the mouth of the Amur cargo is carried now at 14 kopecks per pood, or about $4 gold per ton The Chinese Eastern Railroad Company and the Amur Steamship Company run good steamers on this line, and there are also several private boats covering the same route. All are loaded continually to their full capacity.

The steamers are mostly of the stern-wheel type, burning wood, such as are in operation on the western rivers in the United States, but as far as I could learn none are constructed of American-made machinery. The time usually required to go from Harbin to Kharborofsk, at the mouth of the Ussuri River, on the Amur, is five days. At this place these steamers connect with trains for Vladivostock.

Railroads.—Going west from Harbin the train takes you by a branch line from the crossing of the headwaters of the Amur to Stretensk, the head of navigation of this great river, while the main line goes to Lake Baikal (Siberia) and Russia. Going east, the railway reaches the sea at Vladivostock over a grade that does not exceed in any place 13 feet to 1,000. Going south, the Chinese Eastern Railway meets seagoing ships at Niuchwang, Dalny, and Port Arthur. The heaviest grade on this line is 9 feet

Administration Building, Harbin, October, 1903 (to cost 1,200,000 rubles, $618,000)



School of Commerce, Harbin, October, 1903. Woman's College on the Left

Russian Church, Harbin

View of Russo-Chinese Bank and Railroad Hotel in the Distance, Harbin, October, 1903

to 1,000, and that for only a short distance and at rare intervals.

In October, 1903, the regular number of trains dispatched for through traffic was thirty per day. Eighteen local trains were dispatched in addition. These local trains connected the two extremes of the town, viz., the old town and Prestin, with the administration part of the city.

There are also about 400 nesoshticks, or Russian carriages, for public use, and the average earnings of these vehicles is 5 rubles ($2.58) per day.

There is also an automobile line ready to start four machines to operate between the old town and the administration city; each vehicle will carry ten persons. These machines are now on the ground and will carry passengers for 20 kopecks (10 cents) each way. This line is in connection with an electric tramway that is to run a loop line through the river town, or Prestin, and a double loop, or figure 8, line throughout the administration town. This is a private corporation, with a capital of 250,000 rubles ($128,750). The same company is to provide an electric-light system for all three sections of the city.

DISPOSAL OF LAND

Harbin was started primarily as a military center and an administration town for the government and direction of railway affairs. Its growth into a splendid commercial and manufacturing city was not originally provided for by the promoters, and it has been somewhat of a surprise to them, but the fever of making it a great Russian commercial and manufacturing city has now taken possession of the railway management, and every system of promotion and protection that can be devised to increase its growth along these lines is being energetically encouraged.

The capital for most of the private enterprises is furnished by Siberian Jews. Chinese are furnishing money for the construction of some of the finest private buildings, such as hotels, store-rooms, etc. In the administration part of the city no private buildings of any kind are permitted.

The old town was the first to be laid out, and the land was sold to the public at the rate of 1 ruble (51.5 cents) per square sagene (49 square feet) the first year, but this rate is now increased to 3 rubles ($1.55) per square sagene. Following this, in 1901, the administration town was laid out and construction work began on buildings covering 20,000 square sagene (198,000 square feet). Later the river town Prestin was laid out, and in a very short time all of this was sold at a price of 17 rubles ($8.70) per square sagene, and most of it is now covered with substantial brick structures, there being 850 buildings, constructed at a cost of 8,000,000 rubles ($4,120,000). Recently two very large additions were laid out adjoining the administration town, and the land has been sold at prices ranging from 5 to 15 rubles ($2.57 to $7.73) per square sagene. This was purchased largely by speculators, and is being bought from them now at from 20 to 40 rubles ($10.30 to $20.60) per square sagene (49 square feet).

The administration has already received over 2,000,000 rubles ($1,030,000) for land sold to private parties. Many elegant residences and substantial structures are in course of construction in the additions adjacent to the administration town. A hotel and theater combined was built at a cost of 60,000 rubles ($30,900) and rented for 25,000 rubles ($12,875) per annum.

All of this land is secured on an eighty-six years' lease.

THE RUSSO-CHINESE BANK

This is the only banking institution in the place, and it has an elegant home in a structure of stone that has a steam-heating and electric-lighting plant of its

own. The building cost 200,000 rubles ($103,000). The business of the bank has increased 30 per cent during the past year, and its daily transactions, exclusive of railway and other government accounts, amount to 400,000 rubles ($206,000). The bank makes no loans on realty, but advances from one-third to one-half capital for current substantial business. It is inaugurating a very efficient and active system of credits to Chinese merchants purchasing Russian goods for sale in Manchuria. In some cases as much as 200,000 rubles ($103,000) have been given in letters of credt to Chinese for purchases in Russia.

These experiments are proving profitable and satisfactory. The largest success is reported in cotton goods. Many large orders are now being placed in this line and a substantial trade is being created. These goods are brought into Manchuria via Vladivostock free of duty. So far, sugar has been the only article purchased on which the Chinese have lost money.

This system of advancing credit to Chinese merchants for the purchase of Russian goods prevails now generally throughout Manchuria, and it is by this method and by imports free of duty and favored rates over the railway that Russian cotton goods are likely to capture the great trade of Manchuria that is now largely in the hands of American manufacturers.

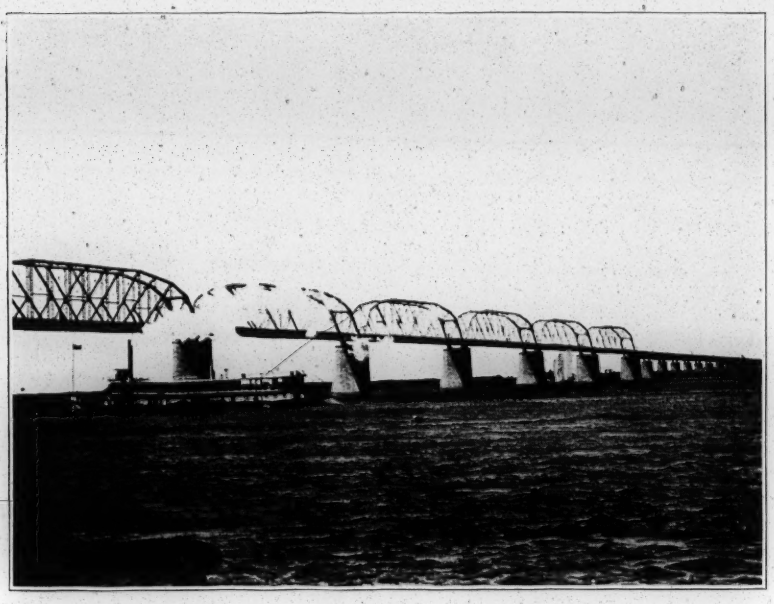
The Russo-Chinese Bank is also very generous to Chinese and Russian merchants in encouraging the purchase and shipping out of native products, but it is exclusive in its methods and will not encourage foreigners.

INDUSTRIES OF HARBIN

The leading industry of Harbin is the manufacture of flour. Eight mills are now in operation, all with modern European machinery with one exception, and that is a small one constructed with American machinery. Applications have been made and granted for the construction of two more large ones, and by the middle of 1904 10 mills will be in operation, producing 25,000 poods (902,800 pounds) of flour per day. They pay from 30 to 35 cents gold per bushel for their wheat delivered at the mills, and the wheat-producing area can be increased enormously. The present value of the flour mills in Harbin is 1,200,000 rubles ($618,000).

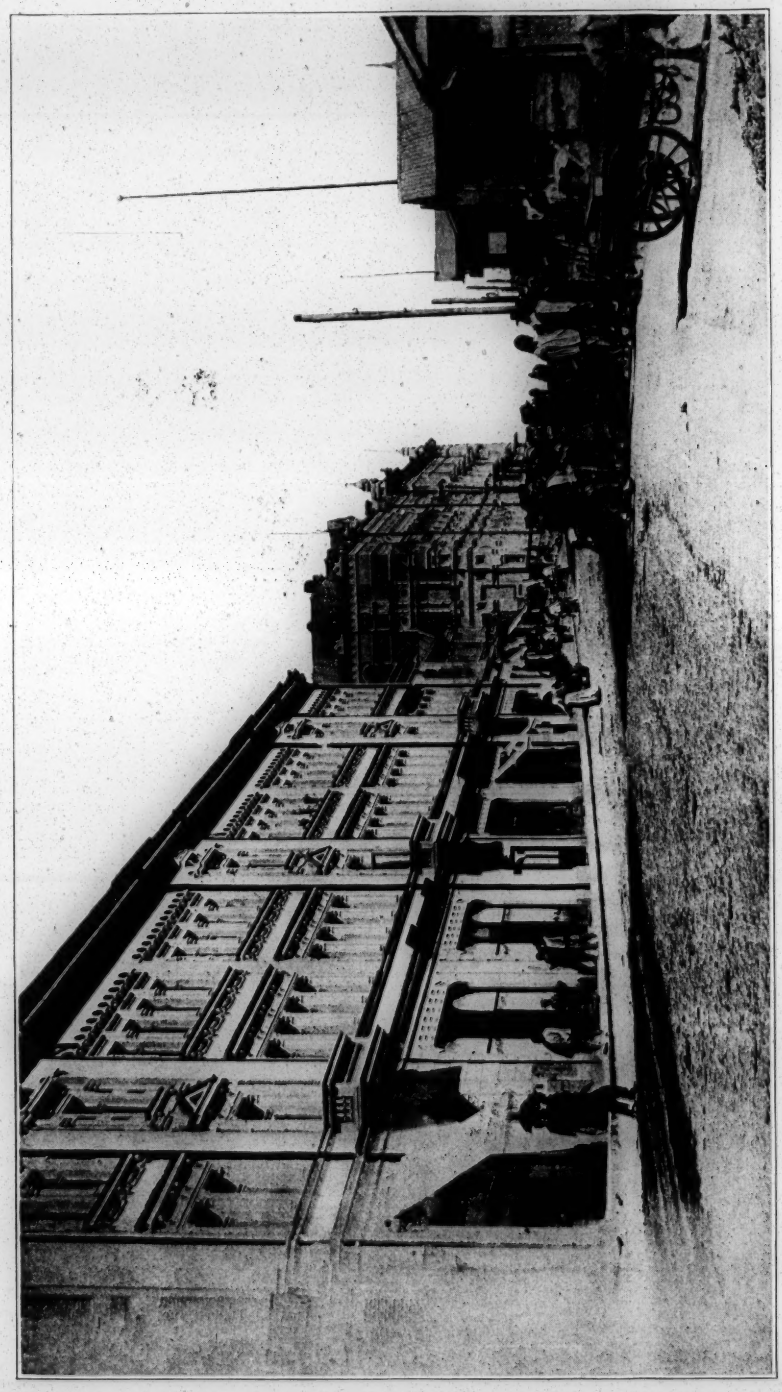
In the immediate vicinity of Harbin there are 200 brick-making plants, the cost of which was 500,000 rubles ($257,500). Two of these plants were constructed by the administration, at a cost of 200,000 rubles ($103,000). Most of the brick produced are used in the construction of the city. A very good grade of red brick is produced and sold for 6.50 rubles ($3.35) per 1,000. Most of the work is done by Chinese, who are paid 35 kopecks (18 cents) per day.

The next industry of importance is the production of the Russian liquor, vodka. There are eight manufactories, constructed at a cost of 200,000 rubles ($103,000). Several of these produce vodka from spirits of wine and sugar brought from Russia. Some produce only the spirits of wine from the local wheat, while others produce their spirits from local wheat and the vodka from their own manufacture of spirits. The consumption of vodka in Harbin alone is 1,000 vedro (2,707 gallons) per day, and the consumption throughout Manchuria is something enormous. In Russia the production is very heavily taxed, and it costs 10 rubles ($5.15) per vedro (2.707 gallons), while in Harbin it sells at from 1.50 to 2.50 rubles (77 cents to $1.28) per vedro. This is for 40 per cent alcohol. To make 1 vedro of 96 per cent of spirits of wine requires 82 pounds of wheat. The bottles for this vodka are at present brought from Japan, but at Imonia, in Manchuria, the Russians are now building a large bottle and glass factory.



River Sungari, Harbin—Russian Railway and Russian Steamer

Completed Section of Dalny, showing Residences of Railway Officials



Business Buildings in River Town, Harbin

Three breweries are now in course of construction in Harbin, to cost 200,000 rubles ($103,000). The Russians are great beer-drinkers and produce in Russia very good beer, but it is not of the quality that bears shipping long distances; hence very little Russian beer is to be seen on the Pacific coast or anywhere in Manchuria. At the present time American beer has the best of the Manchurian market, as 150,000 dozen bottles are imported through one firm at Port Arthur every year. A fine quality of barley is produced in the Sungari Valley, and these breweries will be able to buy it at about half the cost in the United States. There is little doubt but that the Russians will soon be producing all of the beer consumed in Manchuria. Our Pacific Coast hop men ought to be able to sell them their hops, however.

There are several companies engaged in this business, with plants costing altogether 250,000 rubles ($128,750). They cure hams, bacon, and all varieties of smoked meats and produce excellent articles. The hogs and cattle in this part of the country are grain-fed and make splendid meats, and the Russians are experts in preparing it for markets. So far these concerns have not been able to supply the Manchurian markets, but the cheap labor of the country, in combination with the cheap grain and the familiarity of the Chinese with hog-raising, makes a good foundation for the growth of the industry, and I can see no reason why it should not continue to grow sufficiently to produce all that may be required for the oriental markets.

There is a plant costing 25,000 rubles ($12,875) for the preparation of bean oil for use in painting.

Russians are especially fond of candies and sweets, and few people know how to produce a quality equal to the Russian product. There is a manufactory in this line in the old town costing 10,000 rubles ($5,150).

There is on the river a small sawmill that cost 15,000 rubles ($7,750) and two on the railway line between Harbin and Vladivostock that cost 150,000 rubles ($77,500).

AGRICULTURAL RICHES

There are many other industries in embryo, and, as the place is located in the center of an extremely rich agricultural country, has splendid transportation facilities, and is doing so well in the establishment of manufacturing, there is little doubt that it will increase at a very rapid rate as a manufacturing and commercial center.

The country is productive in wheat, cattle, sheep, hogs, millet, barley, oats, corn, beans, furs, hides, wool, bristles, bean oil, bean cake, hemp, tobacco, and timber, and has various undeveloped mineral resources; in fact, it has all the natural elements for the foundation of a great city.

RUSSIAN INVESTMENT IN MANCHURIA

The chief engineer who was in charge of the construction of the Russian railways in Manchuria informed me that Russia had expended in railways in Manchuria 270,000,000 rubles ($139,050,000). Add to this her investments in fortifications and in the constructions of the cities of Port Arthur, Dalny, Harbin, and other places, and it is a very moderate estimate to place her investments in permanent properties in Manchuria at a total of 500,000,000 rubles ($257,500,000).

AMERICAN VS. RUSSIAN TRADE IN MANCHURIA

What is the meaning to the United States of all this progress of Russia on the Pacific—the building of such cities as Harbin and the political domination of the country? It has been recently asserted by prominent people that it signified an enlargement of the market for our goods, and that of the present imports into Manchuria 75 per cent

were from the United States. General statements of this nature are easily made and easily believed, and without any careful examination into the details it has been the usual thing to assume that this development of Russia in Manchuria was certain to bring an increased market for the products of the United States. The subject has not yet been examined in all its phases as it should be, and as far as I know there is no one prepared by study and knowledge of all the details of the question to give a wise decision as to what the effect will be upon American trade from merely an economic point of view.

At the present time the principal imports from the United States into Manchuria stand in the following order: Cotton goods, kerosene, flour, lumber, canned and dried fruits and vegetables, beer, canned milk and butter, cigarettes, and sundries.

The exports from Manchuria to the United States are so small as to be a matter of no consequence.

Cotton Goods.—In cotton goods Russia is anxious for the trade, and is making every effort to secure the business and is becoming a serious competitor. Her advantages in this line are political, bank advances, and transportation. In a free contest, on purely economic lines, I think the United States can hold it. Russia favors the export of cotton goods into Persia by a heavy bounty, and just what she will do in order to secure this trade in Manchuria is not yet determined. At present she is providing a heavily-subsidized steamship line to bring these goods to Dalny and Vladivostock, where they enter free of duty, and no doubt they receive preferential railroad rates from these into the interior, or will if necessary.

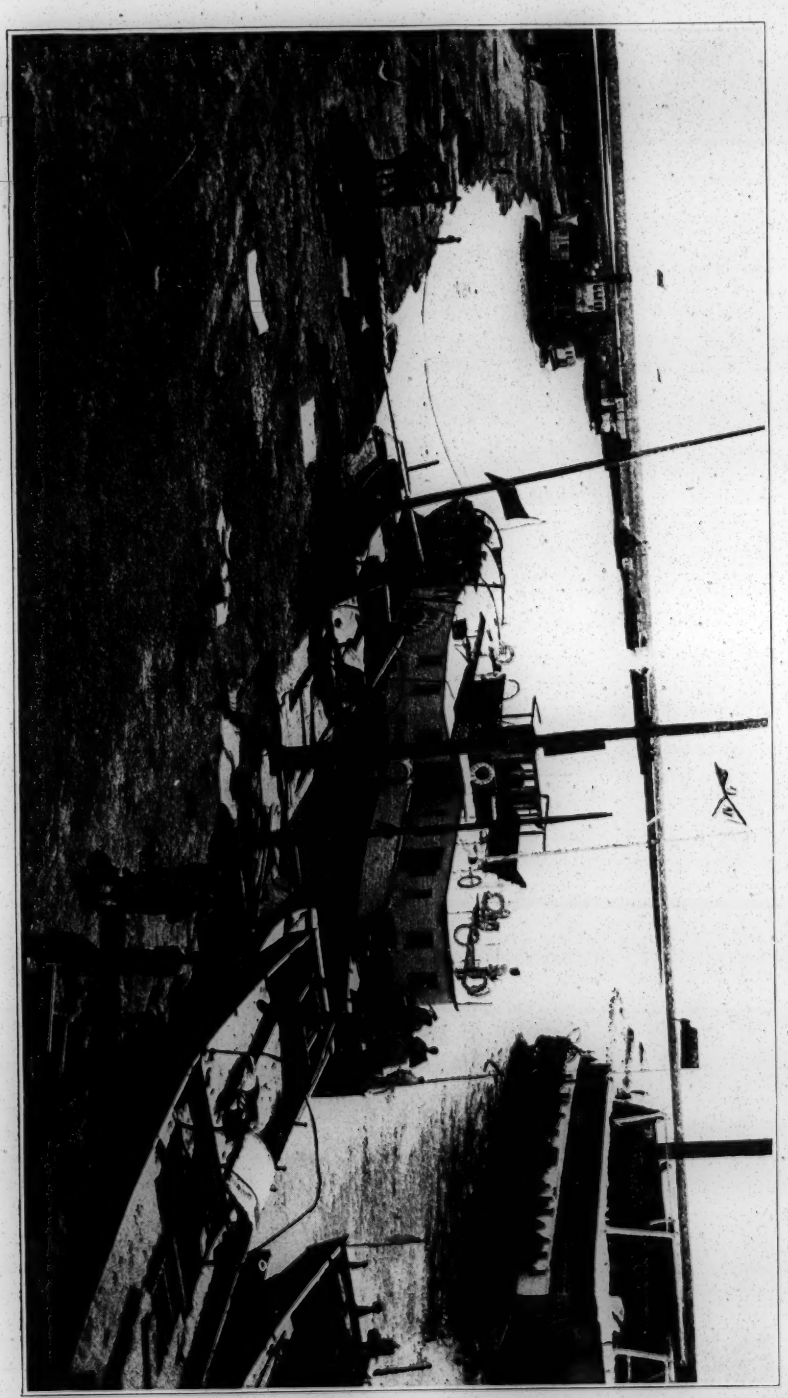
These things, together with the financial help of the Russo-Chinese Bank, have not yet been sufficient to do more than start the trade well, and they may have to resort to a bounty in addition, unless they can shut out foreign goods by a tariff.

The production of cotton goods in Russia is growing very fast, and, as they have their designs on securing the trade of Manchuria in this line, it is only reasonable to suppose that they will eventually secure the trade they are prepared to handle in any country over which they have control.

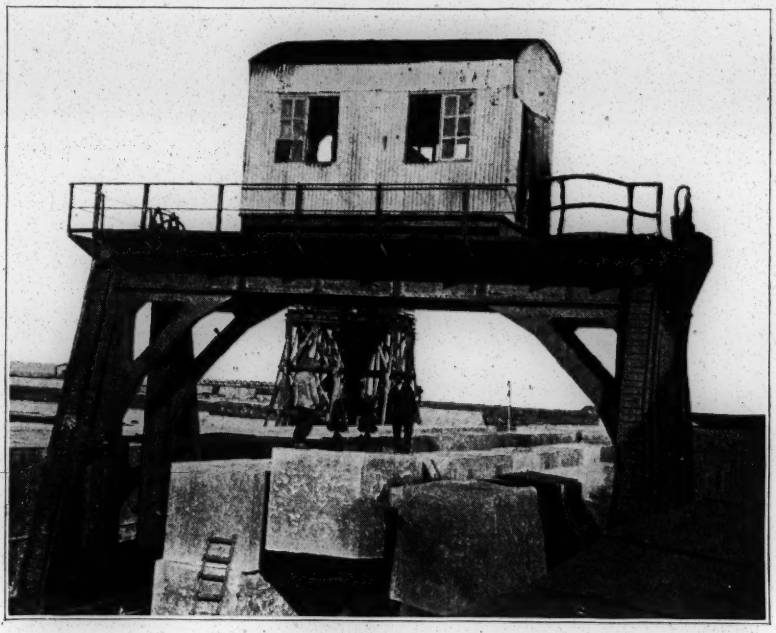
The following is from the pen of a well-known American writer, who has investigated the subject carefully and is thoroughly acquainted with the conditions of production and marketing of Russian cotton goods:

"There is considerable excitement just now about the Russian possession of Manchuria. * * * If Russia adopts the same methods as to other parts of Asia that she is now using in Persia she will drive all other countries out of the market. She has now the monopoly of the cotton business of Persia, and she has gotten it by giving a bounty to her manufacturers. On every pound of Russian cotton goods sent to Persia the Moscow exporter gets an allowance of 3 cents from the government. One cent covers the freight and he has 2 cents a pound profit, besides the usual profit on the goods. The English or German manufacturer has to pay full freight, with no rebate, and he can not compete. This same system will be adopted in China. * * * After the trade has been captured the rebate may be discontinued and the price will rise."

Kerosene.—This is the next in importance of American imports into Manchuria. Russian oil is already making very good headway in a free and equal competition with American oil. By forcing its use in all the cities of Manchuria, by special aid from the Russo-Chinese banks that are now established in all the principal cities, by preferential rates on the railway, by providing tank cars and tank stations along the railway line and refusing these advantages to American



River Sungari, Harbin



Handling the 50-ton Blocks for Construction of Piers, Dalny

Laying the 50-ton Blocks for the Piers, Dalny

oil, it appears to me that Russian oil will have an absolute monopoly of the trade if full control of the country is secured to Russia.

Flour and Lumber.—Concerning these products I have recently issued detailed reports, the summary of which indicates that the Russians have it in their power not only to capture our trade in Manchuria, but to become our most severe competitors in all the oriental markets.

Green and Dried Fruits and Canned Fruits and Vegetables.—In all of these lines I find United States trade expanding considerably, and from every point of view within my observation I am induced to believe that the trade will have a large and permanent growth without danger of disastrous competition.

Beer.—Our trade in this article meets with the competition of Japanese and German beer, but it has been growing continually and is now greater than ever before. When the several breweries in course of construction at Harbin are in operation our trade in this line is most likely to suffer, and in time may give way entirely to the Russian product.

Condensed Milk and Butter.—In butter, the Siberian article is already capturing the Manchurian market, as it is being handled by the commercial department of the Chinese Eastern Railway. It may become a very aggressive competitor for the entire market of the Orient. In condensed milk we have a large and growing market, not only in Manchuria, but throughout the Orient. Should the Russian government elect to engage in this business also, it has the advantage of very cheap milk in Siberia and one of the finest countries in the world in the valley of the Liao, together with cheap labor to establish the industry on a basis that would make it a great rival for our condensed-milk trade with Japan and China.

Cigarettes.—Russian cigarettes are already securing much of the trade and are now in greater evidence throughout the country than any other.

Sundries.—At Harbin an agent of a New York firm informed me that American trade there was confined now to canned goods, including fruits, vegetables, milk, etc., beer, sole leather, carts, and a few lines of hardware.

People informed me that they had succeeded in substituting Russian engines and railway material for American, and that the railway regulations now provided for the purchase of everything Russian when possible, and that had cut off much American trade. They also said that they were succeeding in driving out American kerosene, flour, lumber, cotton goods, and other things, and that they hoped soon to provide Manchuria with all the things that now come from the United States.

United States trade in Manchuria with the Chinese amounted to several millions of dollars per year and was almost entirely imports. It had grown very fast, and would have had an extended and most substantial increase without the Russian development, for the country was being improved and extensively developed, with a continual immigration from other provinces in China, before the railway construction began.

RUSSIA'S COMMERCIAL ADVANTAGES

A study of conditions in Vladivostock, Harbin, and other districts is not particularly encouraging to the idea of extension of American trade in Manchuria in any line that Russia is prepared to supply. A knowledge of the earnest intention of the Russo-Chinese Bank to press the sale of Russian goods, a slight insight into the methods and determination of Russian railways to find a market for the products of Russia, and the interest displayed in developing resources along their lines for Russians and Chinese only, taken in connection with the natural wealth and resources of the country, do not favor the hope that under a Russian régime our trade in Manchuria will be as large as it was before.

If we take into further consideration the fact that the Russian government—by subsidies and bounties and through its banks and railways—is engaging in industrial and commercial pursuits as a government, and calculate the cheap food, cheap and reliable labor, and the vast mineral resources that she will have at her command on the Pacific, the question of the Manchurian market becomes comparatively insignificant, and we find ourselves face to face with the greater problem of the markets of all Asia.

Constructing a Dry Dock at Dalny

Like the builders of the ancient pyramids, the Russians in Manchuria have no lack of laborers. They pay the Chinese laborers 30 cents a day in winter and 20 cents a day in summer.

With millions of cheap and efficient Chinese laborers, with vast coal fields bordering on the Pacific, with mountains of iron and copper, vast forests, and enormous areas of agricultural land, producing now the cheapest food in the world, what is to prevent Russia, if her apparent plans are realized, from becoming a dominating factor in the commercial development of the Far East? One can not view the marvelous growth of a city like Harbin or observe the cities of Vladivostock, Dalny, and Port Arthur and the great Siberian railway without pondering seriously the meaning of it all in the future of Russia on the Pacific.

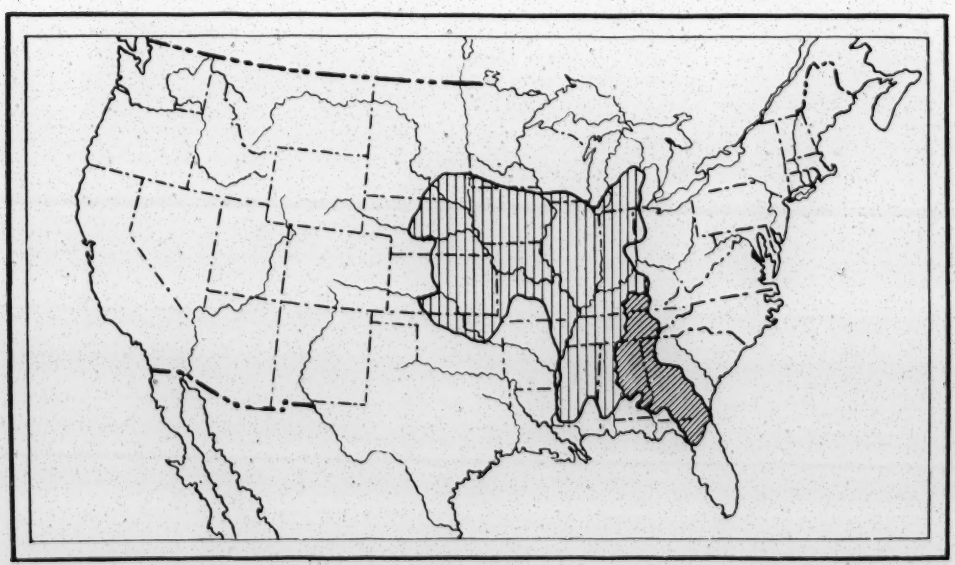
For the present, the prospect is that we shall at least meet with such unfavorable conditions in Manchuria as will endanger our present lines of trade. Whether or not this will be compensated for by an increase in other lines is not at this time clear.

There ought to be, and most likely will be, a large trade in agricultural implements. Of foreign countries, Germany is securing the most of this trade

now in Siberia and Manchuria, and there is no doubt whatever but that German trade is benefiting enormously by recent Russian domination of Manchuria. Next to the Germans come the Austrians, and next to them the Danish.

It is not in the least inspiring for an American to go through as busy and active a trade city as Harbin and find so few things from his country and not a single American citizen or progressive business house. The vision of 75 per cent of American imports into Manchuria dwindles to a most insignificant amount. When you see the great flour mills continually enlarging and increasing in number, when you see the numerous breweries being constructed, when you see Russian engines, and German, Austrian, and Danish machinery and products, and hear of the successful development of Russian lumber mills and the introduction of Russian cotton goods, and see in the Chinese stores Russian oil and cigarettes where before were American, and where you hunt with straining eyes to find something from the United States, one is not seriously impressed with the statement that, under Russian occupation, our imports into Manchuria are sure to increase.

Unfortunately, the only customs returns by which we can measure our trade year by year in Manchuria are from the port of Niuchwang, and even that is very imperfect, for the imports all come from Japan, Hongkong, and other Chinese ports, and the place of origin of the goods is not given in all cases. Goods are coming into Manchuria in great quantities through Port Arthur, Dalny, and Vladivostock continually, as well as through Niuchwang, but there is no means of securing a proper report of them.



Map showing Comparative Size of Manchuria and Korea and the United States

(See page 128)

MANCHURIA AND KOREA

THE magnificent war map of Manchuria and Korea, 36 by 42 inches, which is published as a Supplement to this number of the NATIONAL GEOGRAPHIC MAGAZINE, was prepared in the Military Information Division of the War Department from the latest explorations and surveys. Through the courtesy of the War Department, and in particular of Captain H. C. Hale, Acting Chief of the Diyision, the National Geographic Society is able to publish a large edition of the map. A key to the Supplement is published on the opposite page.

Manchuria corresponds in latitude to Manitoba, North Dakota, South Dakota, Minnesota, and Nebraska. Its area of 362,310 square miles is only 10,000 square miles less than the combined area of these great grain states. It is nearly three times greater than California, and is as big as Texas, Alabama, and Louisiana combined. Consul Miller in the preceding article describes the vast undeveloped resources of Manchuria. In the northern part of the province are thousands of square miles of rich wheat land entirely untouched. Manchuria has a possible wheat area as great as that of the United States.

Unlike China proper, Manchuria is not densely populated except in the south. The estimate of its population ranges from 10 to 20 millions. Korea is the same size as Kansas and slightly smaller than Minnesota, but, unlike Kansas and Minnesota, it is exceedingly mountainous. It has a population estimated at from 8,000,000 to 16,000,000, and its area is 80,000 square miles.

The mass of names given on the Supplement in Southern Manchuria, and especially in Korea, shows how densely populated are certain sections of these countries, and yet their density of population is not to be compared to that of Japan. Japan has a population of 45,000,000, increasing rapidly and living in a space no larger than the State of Montana; but only a part of her area of 150,000 square miles can be cultivated. The 45,000,000 Japanese are practically supported by what they can raise from an area one-third as large as the State of Illinois, less than 20,000 square miles.

The U. S. Consul at Vladivostok, writing just before the outbreak of the war, said:

"Owing to the low third-class rates, the traveling from western Europe to the Far East by the usual trains has become exceedingly cheap. The cost of transporting a third-class passenger from Hamburg to Shanghai by the Siberian and Manchurian railroads amounts to $51.50, inclusive of food, whereas the cost of a sea voyage is about $154.50. The German Government consequently has determined to transport German soldiers to the Far East and return by way of Siberia."

The following authorities may be read with profit at the present time:

"The Russian Advance." A. J. Beveridge. Harpers.

"The Yankees of the East." W. E. Curtis. Stone & Kimball.

"Handbook of Modern Japan." E. W. Clement. A. C. McClurg & Co.

"Korea." A. Hamilton. Scribner's.

"Korea and Her Neighbors." Mrs. I. L. Bishop. F. H. Revell Co.

"Manchuria: Its People, Resources, and Recent History." Hosie. London, 1901.

"China." J. H. Wilson. D. Appleton & Co.

"China—the Long-Lived Empire." E. R. Scidmore. Century Co.

"Village Life in China." A. H. Smith.

"Great Siberian Railway." M. M. Shoemaker. Putnam's.

"Guide to Great Siberian Railway." Ministry of Ways of Communication. St Petersburg.

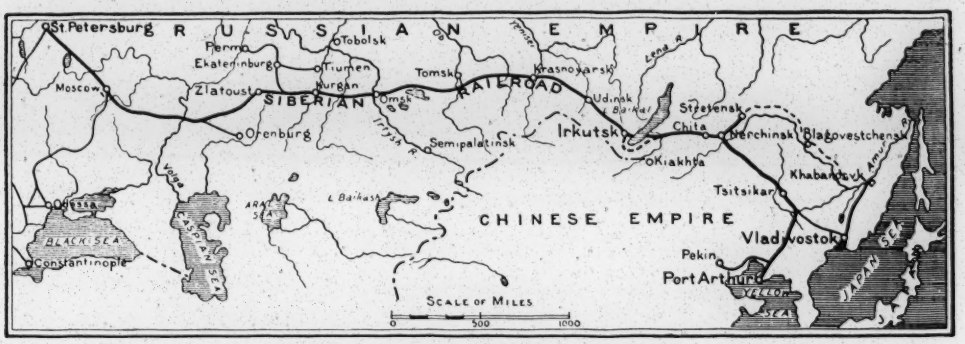
"An American Engineer in China." W. B. Parsons. McClure, Phillips & Co.

"The Awakening of the East." P. Leroy-Beaulieu. McClure, Phillips & Co.

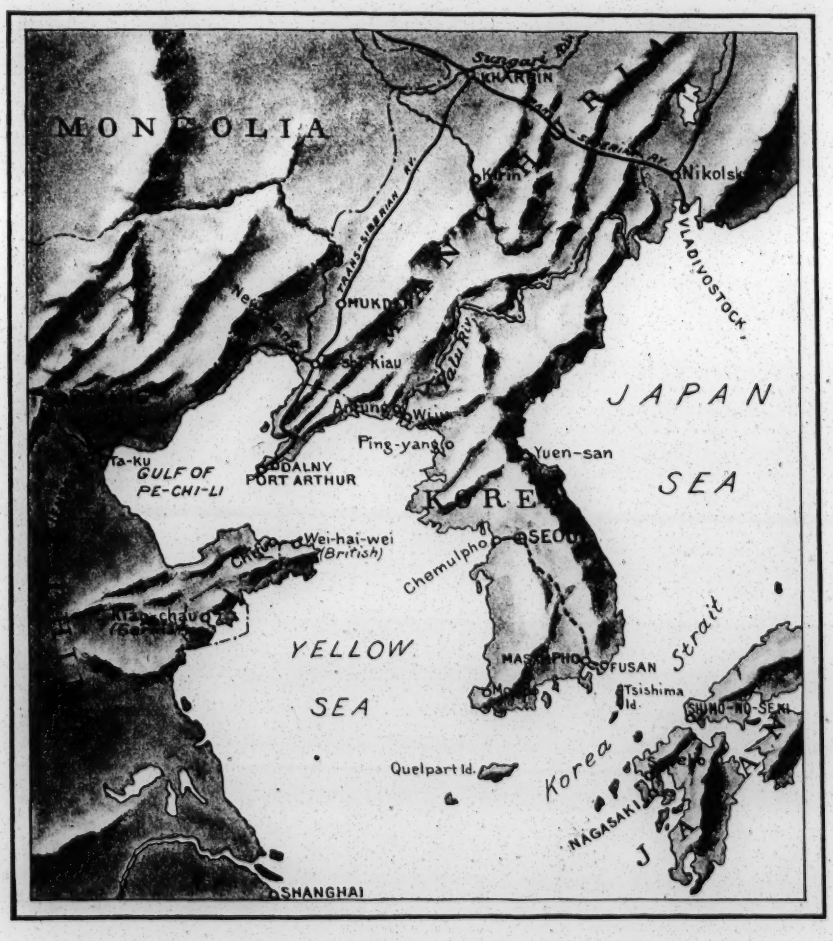
"The Mastery of the Pacific." Archibald Colquhoun. Macmillan Co.

"Problems of the Far East." Lord Curzon. Longmans Green & Co.

"American Diplomacy in the Orient." J.W. Foster. Houghton, Mifflin & Co.

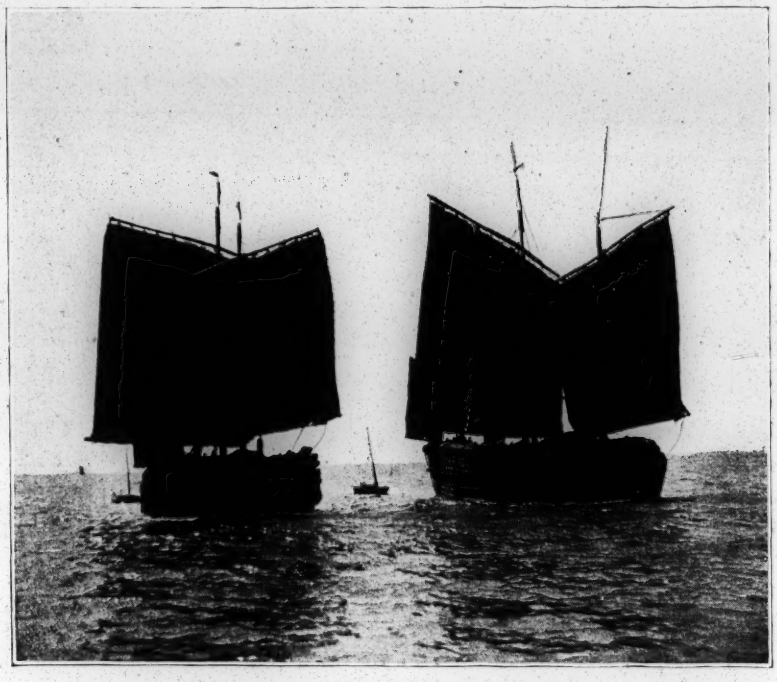


Map of the Great Siberian Railway



Outline Map of Scene of Military Operations in the Far East

This map is designed to serve as a key to the large map which is published as a supplement. It shows the mountainous character of Korea and of the Yalu River country. Port Arthur is of the same latitude as Washington, D. C., and Kharbin a little more northerly than Portland, Maine. Scale, 250 miles to the inch.



Junks Bringing Timber to Niuchwang from the Yalu River

There are 25,000 of these junks trading at Niuchwang

Chinese Sawmill in Manchuria

LUMBERING IN MANCHURIA

THERE are many lumbering enterprises being established in Manchuria, Siberia, and Sakhalin, preparing to compete with the Pacific Coast lumber.

The most important is the Russian Timber and Mining Company of the Far East, with headquarters at Port Arthur. This company is organized by some of the most prominent men connected with the Russian government, and is reputed to have a capital of 20,000,000 rubles ($10,300,000). Its principal operations will be on the Yalu River, where it runs down timber from the forests of Korea as well as the large forests of Manchuria.

I have been informed by men who have seen these forests that they are very extensive and contain immense quantities of exceedingly fine timber. There is much fine timber in this market from that locality, and it has been the source of supply for both this and the Tientsin market for ages.

The ocean and river junks are built of this timber, hewn out in large pieces, often 3 feet and more in width. There are about 25,000 of these junks trading at this port (Niuchwang). The timber is mostly pine, very much like the white pine of the United States. This is the best quality of lumber that I have seen in China. The percentage of clear wood is not very large.

There is also considerable fir, usually much smaller than the pine, and also a timber similar to our tamarack. These are the three varieties from the Yalu district that I have seen. It is brought into this market and the other markets of China on junks. These junks, when coming to this market, usually sail in fleets as a means of protection against pirates, who often board them near the mouth of this river and rob them or levy tribute on them.

Most of this timber is driven or rafted down the Yalu in short lengths, and it is almost impossible to get long timbers from this district. The Chinese, in their native affairs, seldom use any but short timbers, and all the timber cut for Chinese consumption is cut into short lengths in the forests.

Up to the present the logs from this section have been cut into lumber by the whipsaw method, the natives using a thin and narrow saw blade with teeth set so as to cut both ways. Where the Russians have charge of the native sawmills they have introduced large and heavy saws, cutting only on the downward stroke—such saws as are used in our country for whipsawing lumber. With these the natives accomplish much more.

On the Yalu this old method is now to give way to another. Russia is to construct at the mouth of this river the third largest sawmill in the world. I have not been able to get the details or to ascertain whether the mill is to come from the United States or not, but it is certain that a great mill enterprise is already in process of construction. It is to be situated at one of the points of political controversy. It is at this place that the great naval battle between China and Japan was fought, the conclusion of which practically settled that war.

RUSSIAN LUMBER

In addition to this competition, which is already supplying large quantities of timber and lumber to Port Arthur, Dalny, and Niuchwang and to the Chinese Eastern Railway, the Russians are now shipping to all of these places by steamer from Vladivostock and vicinity and from the Island of Sakhalin large quantities of lumber.

This lumber, so far as I have seen it, is of a rather inferior quality compared with the Yalu lumber. It is harder, coarser grained, warps and twists badly,

and is difficult to work. Compared with the Yalu timber, it is about like the Norway pine compared with the white pine. It is, in fact, very much like the poor grade of Norway pine. What I have seen may not be the best quality, however. I am informed that the forests of Siberia and Sakhalin Island are quite extensive, and that the lumber production in that section is susceptible of great development.

This information I have from very reliable sources, but I can not write of it from personal observation. Mr Clarkson, formerly of Portland, Oregon, has a sawmill and sash and door factory at or near Vladivostock, and is reported to be having much success in this enterprise.

Another point of Russian competition in the lumber business is developing on the Sungari River, where the Chinese Eastern Railway crosses it, about 80 miles south of Harbin. Timber in considerable quantities is run down this river to this point and is being made into lumber by the Chinese method, several hundred men being engaged in the work. I am of the opinion that lumber from this source will never reach the sea in competition for the trade of China, but it will be a splendid source of supply for railway use and for the city of Harbin.

This timber, so far as I have been able to find out, is a fair grade of white pine, but the logs are all small. Whether this is due to the difficulties of driving on the stream or to the small growth in the forests, I have not been able to learn.

Harbin is today only three years old, but it is one of the greatest cities of Asia, and has the largest European population of any Asiatic city, containing 60,000 Russians, besides the soldiers. At Harbin there are two small sawmills cutting timber from the Sungari River, coming from below the city. On the railway line between Harbin and Vladivostock there are two large sawmills, the machinery for which cost, in place, 150,000 rubles ($77,250). These mills are engaged in cutting lumber at present for the railway and for the town of Harbin.

It is clear that Russia intends to provide for all the requirements of lumber in Manchuria and Siberia, with a possibility of entering the Chinese market.

The government has established a ruling that all railway and government supplies must be purchased from the Russian companies if possible. This is encouraging many industries in Manchuria, of which the lumber industry is one.

The recent purchase of considerable quantities of lumber from the United States was due to the haste in providing quarters for Russia's army in Manchuria.

The railway will require many ties, or sleepers, as these decay very fast, many having to be replaced before the railroad is completed. This is due to the fact that the railway is not yet ballasted, and the ties are laid deep in the earth and sand, not even the ends being exposed to the air. These ties are now coming in considerable quantities from Siberia and Japan, and I do not believe it possible for our country to compete for the trade.

The Russians are familiar with the lumber, wheat, and flour business, and as they have the natural advantages and the earnest support of their banks, railways, and government throughout Manchuria, I am convinced that their development of these industries is likely to soon close this market to our country in these products, and if they show intense energy and enterprise they will become severe competitors in the great markets of China for flour, especially, and possibly for lumber.

There is none of the lumber that I have yet seen equal to the Oregon pine, but much of it is good enough for the common markets of China and will be accepted for most purposes.

HENRY B. MILLER,
Niuchwang.

WEATHER PROVERBS

FROM earliest times to foretell the weather has had for all peoples of all degrees of culture an extreme fascination. The direction of the winds, the character of the clouds, the actions of insects and animals, etc., have served to foreshadow the coming weather. Every people and nearly every locality has its peculiar weather proverbs, many of which have been handed down for many generations. The modern science of meteorology has found that many of these ancient popular sayings are true enough, though many again are ridiculous. Prof. E. B. Garriott, of the U. S. Weather Bureau, has recently completed a careful selection of such weather proverbs as may be termed in the main correct for the United States, and the collection has been published by the Weather Bureau.* From this interesting collection the following sayings are taken :

Every wind has its weather.—*Bacon.*

When the wind is in the north,
The skillful fisher goes not forth ;
When the wind is in the east,
'Tis good for neither man nor beast ;
When the wind is in the south,
It blows the flies in the fish's mouth ;
When the wind is in the west,
There it is the very best:—*Isaak Walton.*

Clouds are the storm signals of the sky.

Rapid changes in the barometer indicate early and marked changes in the weather.

A sudden rise in the barometer is very nearly as dangerous as a sudden fall, because it shows the level is unsteady. In an ordinary gale the wind often blows hardest when the barometer is just beginning to rise, directly after having been very low.

When the glass falls low,
Prepare for a blow ;
When it rises high,
Let all your kites fly.—*Nautical.*

Men work better, eat more, and sleep sounder when the barometer is high.

Do business with men when the wind is from the westerly ; for then the barometer is high.

Sailors note the tightening of the cordage on ships as a sign of coming rain.

When rheumatic people complain of more than ordinary pains, it will probably rain.

When the perfume of flowers is unusually perceptible, rain may be expected.

Rainbow in morning, shepherds take warning;
Rainbow at night, shepherds delight.

Human hair (red) curls and kinks at the approach of a storm and restraightens after the storm.

Cats have the reputation of being weather-wise, an old notion that has given rise to a most extensive folklore. It is almost universally believed that good weather may be expected when the cat washes herself, but bad when she licks her coat against the grain, or washes her face over her ears, or sits with her tail to the fire.

All shepherds agree in saying that before a storm comes sheep become frisky, leap, and butt or "box" each other.

When the voices of blackbirds are unusually shrill, or when blackbirds sing much in the morning, rain will follow.

Robbins will perch on the topmost branches of trees and whistle when a storm is approaching.

A bee was never caught in a shower.

Expect stormy weather when ants travel in lines and fair weather when they scatter.

Ants are very busy, gnats bite, crickets are lively, spiders come out of their nests, and flies gather in houses just before rain.

When you see the ground covered with spider webs which are wet with dew and there is no dew on the ground, it is a sign of rain before night, for the spiders are putting up umbrellas ; but others say when the spiders put out their sunshades it will be a hot day.

Corn fodder dry and crisp indicates fair weather ; but damp and limp, rain. It is very sensitive to hygrometric changes.

Mushrooms and toadstools are numerous before rain.

The sun, moon, and stars indicate impending weather changes only so far as their appearance is affected by existing atmospheric conditions.

The moon and the weather
May change together ;
But change of the moon
Does not change the weather.
If we'd no moon at all,
And that may seem strange,
We still have the weather
That's subject to change.

When the moon rises red and appears large, with clouds, expect rain in twelve hours.

Excessive twinkling of stars indicates heavy dews, rain, or snow, or stormy weather in the near future.

A bad year comes in swimming.—*French.*

Frost year, good year. Snow year, good year.

A cow year, a sad year ; a bull year, a glad year.—*Dutch.*

Leap year was ne'er a good sheep year.—(*Scotland.*)

* Weather Folklore and Local Weather Signs. Bulletin No. 33. By E. B. Garriott, Professor of Meteorology. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Washington : Government Printing Office, 1903. $0.35.

The Russian Advance. By Albert J. Beveridge. With two maps. Pp. 486. 5½ by 8½ inches. New York: Harper Bros. 1903. $2.50 *net.*

Senator Beveridge made an extended journey through Manchuria and the Far East in 1901, preceded by a visit to Russia and Siberia. The present volume describes the impressions he derived on that journey, as well as the results of special studies he has made for a number of years of the Russian people and Russian history. His book is one of unusual power and foresight and is written in the characteristic eloquent and graphic style of the statesman author. He is a great admirer of Russian statesmanship, that "far-sighted and patient policy which has always looked ahead and considered the needs of the Russian people a century beyond the immediate moment."

The present war is the inevitable conflict of the Japanese conception of the Oriental "destiny" of Japan and the Russian conception of the Oriental "destiny" of Russia. But it is a conflict "not only of opposing interests, but of singularly acute race antipathies. Tolerant as the Russians are of other races, their hatred of the Japanese is pronounced and apparently instinctive."

Mr Beveridge tried to discover whether the Chinese in Manchuria objected to Russian control. The unanimous reply of every Chinaman, of high or low degree, seemed to be as follows: "I don't care who governs us, and I don't know a single Chinese merchant who does care. All we want is an opportunity to do business and make money." Though it was only a year after the Boxer outbreaks when Mr Beveridge was in Manchuria, he found peace and quiet everywhere. Hundreds of thousands of Chinese laborers were working on the railroad, on the new towns of Dalny, Harbin, etc., contented and happy. The secret of Russian success in bringing tranquillity so quickly is the Russian method. "It is the simple and traditional method of Russia to strike when you strike, and to spare not when you are striking. It is to wage war while war exists, and to employ the methods of peace only when war is over."

Russia waged no "milk-and-water" war in Manchuria in 1900; she waged a war of blood. But as soon as the fighting ended her soldiers stacked their guns and bayonets and started building cities and railroads. They employed thousands of Chinese laborers, paid them good wages, and kept them busy. Another cause of Russian success is the entire lack of race prejudice of the Russian. Superior to all the world, as he believes himself, he shows no offensive manner toward the other races with which he mingles; he fraternizes with the Chinaman, instead of rubbing in his superiority.

The volume deals almost entirely with the Russian advance in eastern Asia during the past few years. The closing chapters, however, discuss Russian capital and labor, the Russian workingman, priest, people, and church, Russian national ideals, the Russian common school and country hospital. There is a notable chapter on three Russians of world fame—Tolstoi, Witte, and Pobyedonostseff, procurator of the Holy Synod. Tolstoi is a noble by birth and a peasant by choice; Witte and Pobyedonostseff of the common people by birth, but of the autocracy by virtue of their very natures.

Witte has made Russia the largest owner and operator of railways in the world, the largest dealer in alcoholic liquors in the world, and soon will make her the greatest buyer and seller of tea. Should this process of giving the national government monopoly of the great industries continue, Russia will develop into a communistic state. It is said that the profits from the sale of vodka practically support the army and navy. Senator Beveridge states that the government control of the liquor business has

greatly reduced drunkenness and given the people a better and purer liquor.

"Russia is no state; Russia is a world," is the voice of the soul of Russia—"Russia that ever waits; Russia that is ever patient; Russia that ever advances; Russia that never hurries; Russia that looks upon other peoples as disorganized communities and dying races and considers herself the heir of all the ages."

The two maps given are unfortunate, both being very incorrect. The map showing Russian advances in Asia represents entire Russian expansion east of the Urals as having taken place since 1648, whereas the Russian had already reached Bering Sea at that time. The statements of advance on the east coast of the Caspian, and also south of the Amur, are also much displaced in time.

The U. S. Geological Survey has adopted a design for a Survey flag. The design is shown in the accompanying diagram, the triangle, cross-hammers, and stars being white on a blue background. The flag will be flown hereafter from all Survey camps at all times. The flag was designed by Mr Robert H. Chapman, of the Survey.

A map of the Republic of Panama, 23 by 42 inches, has been published by the Military Information Division of the War Department. The map is in colors and shows in detail all that is at present known of the territory of the Republic. A large and excellent map of the Panama Canal, with explanatory text, has been published by E. J. Beverstock, of Washington, D. C.

A Map Showing Commander Peary's recent discoveries in north Greenland and Grant Land has been published by the U. S. Hydrographic Office. It is in four colors, 30 by 34 inches, and is very beautifully engraved. The price of the map is 50 cents and it may be obtained from the Hydrographic Office.

"Diplomatic and Consular Service of the United States, with maps showing location and Classification of Consular Officers of each Grand Division of the World," is the title of an exceedingly useful report by the Bureau of Statistics of the Department of Commerce and Labor.

BOOKS RECEIVED

The Philippine Islands. 1493–1898. Volume IX. 1593–1597. By Emma H. Blair and James A. Robertson. Pp. 329. 6½ by 9½ inches. Cleveland: The Arthur H. Clark Company. 1904.

New Physical Geography. By Ralph S. Tarr. With many plates and diagrams. Pp. x + 457. 5½ by 7½ inches. New York: The Macmillan Company. 1903. $1.00.

Longmans' School Geography. By George G. Chisholm and C. H. Leete. Illustrated by plates and diagrams. Pp. xii + 513. 5½ by 7¼ inches. New York: Longmans, Green & Co. 1903.

Turkish Life in Town and Country. By Lucy M. J. Garnett. Illustrated. Pp. viii + 336. 5 by 7½ inches. New York: G. P. Putnam's Sons. 1904.

Madiaeval England. By Mary Bateson. Illustrated. Pp. xxvii + 448. 5½ by 8 inches. New York: G. P. Putnam's Sons. 1904.

La Japon d'aujourd'hui. By G. Wenlersse. Pp. 359. 4½ by 7½ inches. Paris: Librairie Armand Colin. 1904.

PLACE NAMES IN EASTERN ASIA

THE breaking out of the war between Russia and Japan is bringing trouble to every household in the land, for the place names of Korea and Manchuria are spelled differently by different newspapers and on different maps. These names in the native tongue are written in characters different from those which we employ, and have been transliterated into roman characters by different persons in different ways; hence the widely varying forms which are seen. It is not generally known that a system of transliteration of such names has been adopted by most European nations, by Canada, and by this country—a system which is simple, easy of application, and which, if generally followed, reduces these variations of spelling to a minimum. This plan is published in the report of the U. S. Board on Geographic Names, and is here republished for ready reference.

RULES FOR TRANSLITERATION

a has the sound of *a* in father.
e has the sound of *e* in men.
i has the sound of *i* in ravine or of *ee* in beet.
o has the sound of *o* in mote.
u has the sound of *oo* in boot.
ai has the sound of *i* in ice.
au has the sound of *ow* in how.
ao is slightly different from above.
ei has the sound of the two Italian vowels, but is frequently slurred over, when it is scarcely distinguishable from *ey* in the English they.

c is always soft and has nearly the sound of *s*. Hard *c* is given by *k*.

ch is always soft, as in church.

f as in English; *ph* should not be used for this sound.

g is always hard. (Soft *g* is given by *j*.)

h is always pronounced when inserted.

j as in English; *dj* should never be put in for this sound.

k as in English; it should always be used for hard *c*.

kh has the sound of the oriental guttural.

gh is another guttural, as in the Turkish.

ng has two slightly different sounds, as in finger, singer.

q should never be employed; *qu* is given by *kw*.

y is always a consonant, as in yard, and should not be used for the vowel *i*.

The U. S. Board on Geographic Names has passed upon only a few of these names of eastern Asia. Among them are Amur, Chemulpo, Korea, Seoul, Manchuria, and Tokyo. Of the names already in common use in connection with the seat of war, the following forms should be employed in accordance with the rules above quoted: Mukden, Yalu, Sungari, Chefu, and Fusan. H. G.

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8 p. m., Friday, February 26.—National Rifles Armory. "Travels in Arabia and Along the Persian Gulf." Mr David G. Fairchild. Illustrated.

4.40 p. m., Saturday, February 27.—Columbian University. "The Argentine Republic." Mr Charles M. Pepper.

8 p. m., Friday, March 4.—Cosmos Club. "The Work of the National Bureau of Standards." Dr G. M. Stratton.

4.40 p. m., Saturday, March 5.—Columbian University. "San Domingo." Mr Percy King. Illustrated.

8 p. m., Friday, March 11.—National Rifles Armory. "Little Known Peoples of Mexico." Dr Carl Lumholtz. Illustrated.

4.40 p. m., Saturday, March 12.—Columbian University. "Brazil."

8 p. m., Friday, March 18.—Hubbard Memorial Hall. "The Work of the U. S. Biological Survey." Dr C. Hart Merriam.

4.40 p. m., Saturday, March 19.—Columbian University. "Peru." Hon. Manuel Alvarez Calderon, E. E. and M. P. from Peru. Illustrated.

8 p. m., Friday, March 25.—National Rifles Armory. "The Louisiana Purchase Exposition." President D. R. Francis. Illustrated.

4.40 p. m., Saturday, March 26.—Columbian University. "Chile."

8 p. m., Friday, April 1.—Hubbard Memorial Hall. "A Journey Across Mindanao." Alonzo H. Stewart. Illustrated.

4.40 p. m., Saturday, April 2.—Columbian University. "Colombia and Venezuela." Hon. F. B. Loomis, Assistant Secretary of State.

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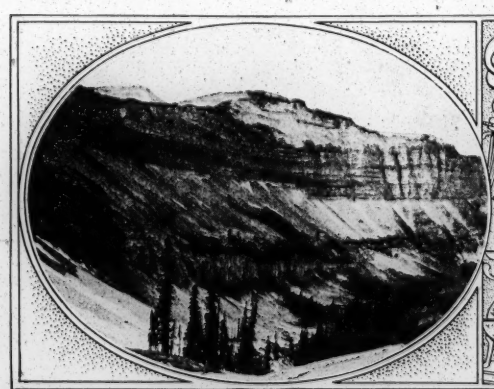

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